स्वच्छ महाराष्ट्र अभियान (नागरी) अंतर्गत राज्यातील नागरी स्थानिक स्वराज्य संस्थांकडील शौचालयांच्या सेप्टीक टँक मधील मैल्याचे सुरक्षित, नियमित व्यवस्थापन करून व त्यावर प्रकीया करण्यासाठी मैला प्रक्रीया केंद्र (FSTP) बांधण्यास प्रशासकीय मान्यता देण्याबाबत.

महाराष्ट्र शासन
नगर विकास विभाग
शासन निर्णय क्रमांक : स्वमअ-२०१९/प्र.क्र.१२४/नवि ३४
हुतात्मा राजगुरु चौक, मादाम कामा मार्ग,
४ था मजला, मंत्रालय, मुंबई ४०००३२
दिनांक : ८ नोव्हेंबर, २०१९

पहा :

१. शासन निर्णय, नगर विकास विभाग, क्रमांक स्वभाअ २०१५/प्र.क्र.२३/नवि ३४ दि. १५.०५.२०१५
२. शासन परिपत्रक, नगर विकास विभाग, क्रमांक स्वमअ २०१७/प्र.क्र.३१/नवि-३४, दिनांक १७ मार्च, २०१७
३. शासन परिपत्रक,नगर विकास विभाग, क्रमांक स्वमअ २०१७/प्र.क्र.२६३/नवि-३४,दि. ३० डिसेंबर, २०१७
४. शासन निर्णय,नगर विकास विभाग, क्रमांक स्वमअ २०१७/प्र.क्र.२६३/नवि-३४,दि. १५ डिसेंबर, २०१८
५. शासन निर्णय,नगर विकास विभाग, क्रमांक क्र-स्वमअ-२०१९/प्र.क्र.८२/नवि ३४, दि. २४.०५.२०१९
६. शासन निर्णय, नगर विकास विभाग,क्रमांक क्र-स्वमअ-२०१९/प्र.क्र.१०५/नवि ३४, दि. ११.०९.२०१९

प्रस्तावना :

केंद्र शासनाच्या स्वच्छ भारत अभियानाच्या धर्तीवर संदर्भीय क्रमांक १ येथील शासन निर्णयान्वये राज्यामध्ये स्वच्छ महाराष्ट्र अभियानाची अंमलबजावणी सुरु आहे. या अभियानांतर्गत शहरांमधील ज्या कुटुंबांकड़े शौचालयाची सुविधा नाही अशा कुटुंबियांना वैयक्तिक अथवा सामुदायीक शौचालयाची सुविधा उपलब्ध करून देवून शहरे **"हागणदारी मुक्त"** करणे, तसेच, घनकचरा व्यवस्थापन नियम, २०१६ नुसार शहरातील घनकचरा व्यवस्थापन करून शहरे **"स्वच्छ"** करणे या दोन प्रमुख बाबींचा समावेश आहे.

२. त्यानुसार, या अभियानांतर्गत राज्यातील ज्या कुटुंबाकड़े शौचालयाची सुविधा उपलब्ध नाही अशा कुटुंबांना शौचालयाची सुविधा उपलब्ध करून देवून राज्याचा संपूर्ण नागरी भाग हा दिनांक १ ऑक्टोबर, २०१७ रोजी हागणदारी मुक्त घोषीत करण्यात आला आहे.

३. राज्यातील सर्व शहरे हागणदारी मुक्त झाल्यानंतर, या शहरांमधील हागणदारी मुक्तीचे सातत्य राखण्यासाठी व शहरातील नागरीकांना शौचालयांच्या चांगल्या सुविधा उपलब्ध होण्याच्या दृष्टिने ही शहरे **"ओडीएफ+"** करण्यात येत आहेत. यापुढे, राज्यातील नागरीकांना शौचालयांच्या चांगल्या सुविधांसह शहरांमधील शौचालयांच्या सेप्टीक टँक मधील मैल्याचे सुरक्षित व नियमित व्यवस्थापन करून त्यावर प्रक्रीया करून या शहरांना **"ओडीएफ++"** दर्जा प्राप्त करणे आवश्यक आहे.

४. स्वच्छ महाराष्ट्र अभियानांतर्गत शहरे हागणदारी मुक्त करताना शहरांमधील ज्या भागात मलनिस:रण व्यवस्था अस्तित्वात आहे अशा भागातील शौचालये मैला व्यवस्थापनाच्या दृष्टिने मलनिस:रण व्यवस्थेस जोडण्यात आली आहेत. तर, जेथे मलनिस:रण व्यवस्था अस्तित्वात नाही अशा भागातील / शहरांमधील शौचालये सेफ्टीक टँकला जोडण्यात आली आहेत. जी शौचालये मलनिस:रण व्यवस्थेस

जोडण्यात आली आहेत त्या शौचलयांमधील मैल्यावर संबंधित शहरांतील मलनिस:रण प्रक्रिया केंद्रामध्ये (STP) प्रक्रीया होत आहे. परंतु, शहरातील ज्या भागात / ज्या शहरांमध्ये मलनिस:रण व्यवस्था उपलब्ध नसल्याने जी शौचालये सेफ्टीक टँकला जोडण्यात आली आहेत अशा भागातील / शहरांतील शौचालयांच्या सेफ्टीक टँक मधील मैला सुरक्षित व नियमित व्यवस्थापन करून त्यावर प्रक्रीया करणे आवश्यक आहे.

५. सध्यस्थितित राज्यात एकूण ३६ शहरांमध्ये पूर्णत: अथवा अंशत: प्रमाणात मलनि:सारण व्यवस्था व मलनिस:रण प्रक्रिया केंद्र (STP) अस्तित्वात व कार्यान्वित आहे. त्या शहरांमधील शौचालयाच्या सेप्टीक टँक मधील मैल्याचे सुरक्षित व नियमित व्यवस्थापन व प्रक्रीया त्याच शहरातील मलनिस:रण प्रक्रीया केंद्रा मध्ये करण्यात येत आहे. तर, ज्या शहरांमध्ये मलनि:सारण प्रक्रिया केंद्र (STP) अस्तित्वात नाही, परंतु ती शहरे मलनि:सारण प्रक्रिया केंद्र (STP) अस्तित्वात असलेल्या शहरांच्या २० कि.मि. च्या परिघात आहेत अशा ३२ शहरांमधील शौचालयांच्या सेप्टीक टँक मधील मैला सुरक्षित व नियमित व्यवस्थापन करून त्यावर प्रक्रीया करण्याच्या दृष्टिने ज्या शहरात मलनि:सारण प्रक्रिया केंद्र (STP) आहे अशा नजिकच्या शहरांकडे सह-प्रक्रिया करण्यासाठी पाठविण्याच्या सूचना संदर्भीय क्रमांक ४ येथील शासन निर्णय दिनांक १५ डिसेंबर २०१८ अन्वये देण्यात आल्या आहेत. तर, ५ शहरांकडे स्वतंत्र सेप्टीक टँक मधील मैला प्रक्रिया केंद्र (FSTP) अस्तित्वात आहे. अशा प्रकारे राज्यातील ३८४ शहरांपैकी ७३ शहरांमधील शौचालयांच्या सेप्टीक टँक मधील मैला सुरक्षित व नियमित व्यवस्थापन करून त्यावर प्रक्रीया होत आहे. उर्वरीत ३११ शहरांमधील सेप्टीक टँक मधील मैला सुरक्षित व नियमित व्यवस्थापन करून प्रक्रीया करणे आवश्यक असल्याने त्यासाठी योग्य तांत्रज्ञान निवडून त्या तंत्रज्ञानाची अंमलबजावणी करणे आवश्यक आहे.

६. स्वच्छ महाराष्ट्र अभियान अंतर्गत पर्यावरण नियोजन व तंत्रज्ञान केंद्र, अहमदाबाद (Centre for Environmental Planning and Technology (CEPT)) ह्या संस्थेबरोबर झालेल्या सामंजस्य करारा (MoU) अंतर्गत या संस्थेने सेप्टीक टँक मधील मैल्यावर प्रक्रीया करण्यासाठी पुढील प्रमाणे ४ तांत्रिक पर्याय सूचविले असून या ४ ही तांत्रिक पर्यायांना निरी (NEERI) या संस्थेची मान्यता घेण्यात आली आहे.

१) स्लज ड्राईंग बेड (एस.डी.बी)

२) प्लांटेड स्लजड्राईंग बेड (पी.एस.डी.ब),

३) मुव्हींग बेड बायोफिल्म रिएक्टर (एम.बी.बी.आर)

४) अपफ्लो ॲनोरोबिक स्लज ब्लँकेट (यू.ए.एस.बी).

७. उपरोक्त विवेचनाच्या अनुषंगाने राज्यातील ३११ शहरांमधील सेप्टीक टँक मधील मैला सुरक्षित व नियमित व्यवस्थापन करून त्यावर प्रक्रीया करण्यासाठी सुयोग्य तंत्रज्ञान निवडून त्याची अंमलबजावणी करण्यास मान्यता देण्याची बाब शासनाच्या विचाराधीन होती.

<u>शासन निर्णय :</u>

प्रस्तावनेत नमूद केलेल्या बाबींचा विचार करून, पर्यावरण नियोजन व तंत्रज्ञान केंद्र, अहमदाबाद (Centre for Environmental Planning and Technology (CEPT)) ह्या संस्थेने सूचविलेल्या व निरी या

संस्थेने मान्यता दिलेल्या तंत्रज्ञाना पैकी **स्लज ड्राईंग बेड (एस.डी.बी)** (Sludge Drying Bed (SDB))हे तंत्रज्ञान कार्यान्वयनास सोपे आहे, प्रकल्पाच्या बांधकाम व उभारणीस आवश्यक सामुग्री स्थानिक कंत्राटदारांस सहज उपलब्ध होऊ शकते, प्रकल्प कार्यान्वित ठेवण्यासाठी विद्युतीपुरवठा किमान लागतो व विखंडित विद्युतपुरवठ्याचा यावर परिणाम होत नाही तसेच, प्रकल्प देखभालीसाठी सोपा आहे. यास्तव राज्यातील मलनि:सारण प्रक्रिया केंद्र (STP) अस्तित्वात नसलेल्या शहरांमधील सेप्टीक टँक मधील मैला सुरक्षित व नियमित व्यवस्थापन करून त्यावर प्रक्रीया करण्यासाठी **स्लज ड्राईंग बेड (एस.डी.बी)** हे तंत्रज्ञान निवडून त्यावर आधारित सेप्टीक टँक मधील मैल्यावर प्रक्रिया केंद्र (FSTP) उभारण्यास शासन मान्यता देत आहे.

२. राज्यातील नागरी स्थानिक स्वराज्य संस्थांची लोकसंख्या विचरात घेवून, त्या शहरातील सेप्टीक टँक मधील मैला व्हॅक्युम एमटीअर व्दारे काढून त्यावर प्रक्रीया करण्यासाठी पुरेशा क्षमतेचे; त्या समोर दर्शविलेल्या विभागनिहाय किंमतीचे (महाराष्ट्र जीवन प्राधिकरणाच्या विभागीय निहाय दरसूचीनुसार) स्लज ड्राईंग बेड (एस.डी.बी) उभारण्यास खालील परिच्छेद ३ मध्ये नमूद केलेल्या अटी व शर्तीच्या अधीन राहून शासन प्रशासकीय मान्यता देत आहे.

अ. क्र.	नागरी स्थानिक स्वराज्य संस्थेची लोकसंख्या	स्लज ड्राईंग बेड (एस.डी.बी) ची क्षमता किलो लिटर प्रति दिवस (KLD)	प्रकल्पाची किंमत (रूपये)					
			अमरावती विभाग	नागपूर विभाग	कोंकण विभाग	नाशिक विभाग	पुणे विभाग	औरंगाबाद विभाग
१	२	३	४	५	६	७	८	९
१	१५००० पर्यंत	३	९,०९,२७५	९,०९,२७५	९,५२,०८७	९,२०,७६७	९,४५,३७९	९,१८,५६०
२	१५,००१ - २५,०००	५	११,१३,३२५	११,१३,३२५	११,७०,९०४	११,२८,९४०	११,६१,०९१	११,२५,७०१
३	२५,००१ - ५०,०००	१०	१७,०६,९१८	१७,०६,९१८	१८,०७,४१५	१७,३४,१९४	१७,८९,२०७	१७,२८,४०४
४	५०,००१ - ७५,०००	१५	२१,६१,९६४	२१,६१,९६४	२२,९५,५७१	२१,९९,०२१	२२,६९,५३३	२१,९०,२५३
५	७५,००० पेक्षा अधिक	२०	२५,३९,१५६	२५,३९,१५६	२७,००,१३६	२५,८४,५२०	२६,६७,२५३	२५,७२,९६२

(अ) स्लज ड्राईंग बेड (एस.डी.बी) ची उभारणी करण्यास मंजूरी दिलेल्या नागरी स्थानिक शहरांची विभागनिहाय यादी **जोडपत्र-१** म्हणून या शासन निर्णया सोबत जोडली आहे. यामध्ये संबंधित नागरी स्थानिक स्वराज्य संस्थेस त्यांच्या लोकसंखेनुसार मंजूर केलेल्या स्लज ड्राईंग बेड (एस.डी.बी) क्षमता व अंदाजित प्रकल्पीय किंमत नमूद केली आहे.

(ब) उपरोक्त विवरणपत्रातील रकाना ३ मध्ये दर्शविलेल्या क्षमतेच्या स्लज ड्राईंग बेड (एस.डी.बी) च्या टाईप प्लान (Type Plan) व नमुना प्राकलनास (Type Estimate) महाराष्ट्र जीवन प्राधिकरणाने त्यांचे पत्र क्रमांक मनिसंस/मजीप्रा.कक्ष/नगरोत्थान/सीआर ५२७/२०१९ दिनांक ४/६.११.२०१९ अन्वये मान्यता प्रदान केली आहे.

४. अटी व शर्ती:

४.१ सदर प्रकल्पासाठी कार्यान्वयन यंत्रणा संबंधित महानगरपालिका / नगरपरिषद/ नगरपंचायत राहील.

४.२ नागरी स्थानिक स्वराज्य संस्थेकडे असलेल्या जागेवर परंतु प्रामुख्याने घनकचरा व्यवस्थापनासाठी उपलब्ध असलेल्या जागेमध्येच या स्लज ड्राईंग बेड (एस.डी.बी) ची उभारणी करण्यात यावी.

४.३ स्लज ड्राईंग बेड (एस.डी.बी) च्या क्षमतेनुसार त्याचा बांधकामाचा विभाग निहाय अपेक्षित खर्चाचा सविस्तर तपशील **जोडपत्र-२** म्हणून या शासन निर्णया सोबत जोडला आहे.

४.४ स्लज ड्राईंग बेड (एस.डी.बी) ची उभारणी / बांधणी करताना संबंधित नागरी स्थानिक स्वराज्य संस्थेस या अनुषंगाने राज्य अभियान संचालनालयाने पाठविलेल्या टाईप प्लान (Type plan) चा वापर करणे बंधनकारक आहे. सदर कामामध्ये किंवा कामाच्या उपांगामध्ये संबंधित कार्यान्वयन यंत्रणेने कोणताही (Size किंवा परिमाणा मध्ये) बदल करू नये.

४.५ महाराष्ट्र जीवन प्राधिकरण दरसूचीमध्ये मटेरीअल करीता लीड चार्जेस देण्याची तरतूद आहे. मात्र, सदर प्राकलन हे टाईप प्लान (Type Plan)च्या आधारे तयार केलेले नमुना प्रकलन असल्याने त्यामध्ये मटेरीअल लीडचा समावेश करण्यात आलेला नाही. यास्तव, प्रत्यक्षात स्थानिक परिस्थिती विचारात घेवून मटेरीअलचा लीड चार्जेसचा दर परिगणित करून त्याचा समावेश करण्यात यावा. तथापी, **हे लीड चार्जेस नमुना प्राकलन (Estimate) किंमतीच्या ५ टक्के पेक्षा अधिक नसावेत.**

४.६ नमूना प्राकलनात सर्वसाधारण सर्व खोदाई बाबींची तरतूद गृहीत धरण्यात आली आहे. तथापी, कार्यक्षेत्रावर प्रत्यक्ष जो भूस्तर लागेल त्यानुसार कार्यवाही करण्यात यावी.

४.७ नमूना प्राकलनात रॉयल्टी चार्जेस व जी.एस.टी. चे दर समाविष्ट नाहीत. त्यामुळे, रॉयल्टी चार्जेस व जी.एस.टी. बाबत ठेकेदाराने आदा केलेल्या रकमेच्या आधारे अदायगी करण्यात यावी.

४.८ सदर प्राकलन हे Type estimate असून trial pit result प्रमाणे excavatation strata असेल त्याप्रामणे अंमलबजावणी करण्यात यावी.

४.९ सर्वसाधारणपणे स्लज ड्राईंग बेड (एस.डी.बी) व Anaerobic Baffled Reactor (ABR) ची बांधणी करताना स्लज ड्राईंग बेड (एस.डी.बी) मधून Anaerobic Baffled Reactor (ABR) मध्ये **गुरूत्वाव्दारे** पाणी जाईल अशा पध्दतीने बांधणे बंधनकारक राहील.

४.१० नमूना प्राकलनात चार पंपाची तरतूद केली आहे. परंतु, सदर चारही पंप एकाच वेळी खरेदी करण्याची आवश्यकता नाही. प्रत्यक्ष क्षेत्रिय परिस्थितीचा विचार करून कार्यान्वयीन यंत्रणेने याबाबत निर्णय घ्यावा.

४.११ सदर प्रकल्पाची कार्यान्वयीन यंत्रणा संबंधित नागरी स्थानिक स्वराज्य संस्था असल्याने, प्रकल्प तात्रिक दृष्टया योग्यरितीने राबविणे आवश्यक असल्याने संबंधित आयुक्त,

महानगरपालिका / मुख्याधिकारी, नगरपरिषद / नगरपंचायत यांनी या शासन निर्णया सोबत जोडलेल्या **जोडपत्र-३** मधील हमीपत्र (Undertaking) भरून राज्य अभियान संचालनालयाकडे पाठविण्यात यावे.

४.१२ प्रकल्पाचे काम सुरु झाल्यानंतर सक्षम प्राधिकाऱ्याने कामाची गुणवत्ता व देयके प्रमाणित केल्यानंतर उपलब्ध निधीच्या मर्यादेत कामाची देयके १५ दिवसांत संबंधित कंत्राटदारास देण्याची जबाबदारी संबंधित स्थानिक स्वराज्य संस्था/कार्यान्वयीन यंत्रणेची राहील.

४.१३ प्रकल्पाच्या भविष्यातील देखभाल दुरुस्ती खर्चासाठी आवश्यक ती यंत्रणा संबंधित स्थानिक स्वराज्य संस्थेने विकसित करावी व त्याद्वारे सदर प्रकल्पासाठीचा देखभाल व दुरुस्तीचा खर्च भागविण्यात यावा.

५. सदर स्लज ड्राईंग बेड (एस.डी.बी) च्या उभारणीचा खर्च नागरी स्थानिक स्वराज्य संस्थांना उपलब्ध करून दिलेल्या १४ व्या वित्त आयोगाच्या स्वच्छ भारत अभियानासाठी राखीव ठेवलेल्या ५० टक्के निधी मधून करण्यास मान्यता देण्यात येत आहे.

६. सदर प्रकल्पाची अंमलबजावणी करण्यासाठी सर्व संबंधित नागरी स्थानिक स्वराज्य संस्थांना संबंधित नियमांच्या अधिन राहून अल्पमुदतीची निविदा (७ दिवसांची) प्रसिध्द करण्यास शासन मान्यता देत आहे.

७. सर्व संबंधित नागरी स्थानिक स्वराज्य संस्थांनी उपरोक्त मान्यतेनुसार अल्पमुदतीची निविदा सूचना प्रसिध्द करून ती दिंनाक २० नोव्हेंबर, २०१९ पर्यंत अंत्तीम करून नियमानुसार करारनामा करून व कार्यन्वयन आदेश देवून संबंधित कंत्राटदारास काम सुरू करण्यास सांगण्यात यावे ही कामे दिनांक ३० नोव्हेंबर, २०१९ पर्यत पूर्ण करून घेण्याचा प्रयत्न करण्यात यावा.

८. सदर शासन निर्णय महाराष्ट्र शासनाच्या www.maharashtra.gov.in या संकेतस्थळावर उपलब्ध करण्यात आले असून त्याचा सांकेतांक २०१९११०८१६३९५०८६२५ असा आहे. हा आदेश डिजीटल स्वाक्षरीने साक्षांकित करुन काढण्यात येत आहे.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने.

Ajit Sahebrao Palwe

Digitally signed by Ajit Sahebrao Palwe
DN: CN = Ajit Sahebrao Palwe, C = IN, S = Maharashtra, O = Government Of Maharashtra, OU = Urban Development Department
Date: 2019.11.08 17:32:05 +05'30'

(अजित पालवे)

कार्यासन अधिकारी, महाराष्ट्र शासन

प्रति :

१) मा.मुख्यमंत्री यांचे प्रधान सचिव, मंत्रालय, मुंबई

२) मा.राज्यमंत्री, नगर विकास यांचे खाजगी सचिव, मंत्रालय, मुंबई

३) मा.मुख्य सचिव, महाराष्ट्र राज्य, मंत्रालय, मुंबई

४) प्रधान सचिव (नवि-२) नगर विकास विभाग, मंत्रालय, मुंबई-३२

५) विभागीय आयुक्त (सर्व)

६) आयुक्त, तथा संचालक, नगरपरिषद प्रशासन संचालनालय, वरळी, मुंबई
७) जिल्हाधिकारी (सर्व)
८) आयुक्त, सर्व महानगरपालिका
९) राज्य अभियान संचालक, स्वच्छ महाराष्ट्र अभिया न (नागरी) मुंबई
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११) जिल्हा प्रशासन अधिकारी, नगरपालिका शाखा, जिल्हाधिकारी कार्यालय (सर्व)
१२) मुख्याधिकारी, नगरपरिषदा / नगरपंचायती (सर्व)
१३) निवडनस्ती, नवि-३४, नगर विकास विभाग, मंत्रालय, मुंबई

शासन निर्णय, क्रमांक : क्र-स्वमअ-२०१९/प्र.क्र.१२४/नवि ३४, दिनांक ८ नोव्हेंबर, २०१९
सोबतचे सहपत्र.

विवरणपत्र-१

Amravati Division

ULBs with requirement of 3KLD FSTP

SN	ULB Name	District	Population (as per Census 2011)	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Babhulgaon (NP)**	Yavatmal	5882	3	9,09,275
2	**Chikhaldara (M Cl)**	Amravati	5158	3	9,09,275
3	**Mahagaon (NP)**	Yavatmal	8248	3	9,09,275
4	**Manora (NP)**	Washim	8675	3	9,09,275
5	**Maregaon (NP)**	Yavatmal	8538	3	9,09,275
6	**Motala (NP)**	Buldana	10331	3	9,09,275
7	**Nandgaon Khandeshwar (NP)**	Amravati	13572	3	9,09,275
8	**Sangrampur (NP)**	Buldana	7258	3	9,09,275
9	**Teosa NP**	Amravati	12482	3	9,09,275
10	**Zari (NP)**	Yavatmal	1535	3	9,09,275

Amravati Division

ULBs with requirement of 5 KLD FSTP

SN	ULB Name	District	Population (as per Census 2011)	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Barshi Taklii**	Akola	21817	**5**	**11,13,325**
2	**Chandur Railway (M Cl)**	Amravati	19776	**5**	**11,13,325**
3	**Chandurbazar (M Cl)**	Amravati	18759	**5**	**11,13,325**
4	**Dattapur Dhamangaon (M Cl)**	Amravati	21059	**5**	**11,13,325**
5	**Dharni (NP)**	Amravati	15761	**5**	**11,13,325**
6	**Ghatanji (M Cl)**	Yavatmal	21293	**5**	**11,13,325**
7	**Kalamb (NP)**	Yavatmal	17447	**5**	**11,13,325**
8	**Ner (M Cl)**	Yavatmal	22618	**5**	**11,13,325**
9	**Patur (M Cl)**	Akola	21095	**5**	**11,13,325**
10	**Ralegaon (NP)**	Yavatmal	15631	**5**	**11,13,325**
11	**Shendurjana (M Cl)**	Amravati	21748	**5**	**11,13,325**
12	**Telhara (M Cl)**	Akola	20986	**5**	**11,13,325**
13	**Lonar (M Cl)**	Buldana	23416	**5**	**11,13,325**

Amravati Division

ULBs with requirement of 10 KLD FSTP

SN	ULB Name	District	Population (as per Census 2011)	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Umarkhed (M Cl)**	Yavatmal	47458	10	17,06,918
2	**Warud (M Cl)**	Amravati	45482	10	17,06,918
3	**Arni(M Cl)**	Yavatmal	27809	10	17,06,918
4	**Darwha (M Cl)**	Yavatmal	25791	10	17,06,918
5	**Daryapur Banosa (M Cl)**	Amravati	36463	10	17,06,918
6	**Deulgaon Raja (M Cl)**	Buldana	30827	10	17,06,918
7	**Digras (M Cl)**	Yavatmal	44767	10	17,06,918
8	**Jalgaon (Jamod) (M Cl)**	Buldana	33400	10	17,06,918
9	**Mangrulpir (M Cl)**	Washim	30983	10	17,06,918
10	**Mehkar (M Cl)**	Buldana	45248	10	17,06,918
11	**Morshi (M Cl)**	Amravati	37333	10	17,06,918
12	**Murtijapur (M Cl)**	Akola	40295	10	17,06,918
13	**Nandura (M Cl)**	Buldana	42167	10	17,06,918
14	**Pandharkaoda (M Cl)**	Yavatmal	31094	10	17,06,918
15	**Risod (M Cl)**	Washim	34136	10	17,06,918

Amravati Division

ULBs with requirement of 15 KLD FSTP

SN	ULB Name	District	Population (as per Census 2011)	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Pusad (M Cl)**	Yavatmal	73046	15	21,61,964
2	**Anjangaon (M Cl)**	Amravati	56380	15	21,61,964
3	**Buldana (M Cl)**	Buldana	67431	15	21,61,964
4	**Chikhli (M Cl)**	Buldana	57889	15	21,61,964
5	**Karanja (M Cl)**	Washim	67907	15	21,61,964
6	**Malkapur (M Cl)**	Buldana	67740	15	21,61,964
7	**Sindkhed Raja (M Cl)**	Buldana	59672	15	21,61,964
8	**Wani (M Cl)**	Yavatmal	58840	15	21,61,964

Amravati Division

ULBs with requirement of 20 KLD FSTP

SN	ULB Name	District	Population (as per Census 2011)	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Achalpur (M Cl)**	Amravati	112311	20	25,39,156
2	**Akola (M Corp.)**	Akola	425817	20	25,39,156
3	**Akot (M Cl)**	Akola	92637	20	25,39,156
4	**Yavatmal (M Cl)**	Yavatmal	116551	20	25,39,156

Aurangabad Division

ULBs with requirement of 3 KLD FSTP

SN	ULB Name	District	Population (as per Census 2011)	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Ashti (NP)**	Beed	11972	3	9,18,560
2	**Badnapur NP**	Jalna	11869	3	9,18,560
3	**Ghansawangi NP**	Jalna	7524	3	9,18,560
4	**Jalkot (NP)**	Latur	9356	3	9,18,560
5	**Lohara B. (NP)**	Osmanabad	7023	3	9,18,560
6	**Mahur (M Cl)**	Nanded	11164	3	9,18,560
7	**Patoda (NP)**	Beed	2373	3	9,18,560
8	**Renapur**	Latur	11516	3	9,18,560
9	**Sengaon**	Hingoli	8455	3	9,18,560
10	**Shirur (NP)**	Beed	5806	3	9,18,560
11	**Shirur Anantpal**	Latur	10417	3	9,18,560
12	**Soigaon (NP)**	Aurangabad	6513	3	9,18,560
13	**Devani(NP)**	Latur	12899	3	9,18,560
14	**Peth Umri (M Cl)**	Nanded	13501	3	9,18,560
15	**Aundha (NP)**	Hingoli	14801	3	9,18,560
16	**Biloli (M Cl)**	Nanded	14923	3	9,18,560
17	**Kundalwadi (M Cl)**	Nanded	14760	3	9,18,560
18	**Palam (NP)**	Parbhani	14286	3	9,18,560

Aurangabad Division

ULBs with requirement of 5 KLD FSTP

SN	ULB Name	District	Population (as per Census 2011)	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Bhokardan (M Cl)**	Jalna	24416	5	11,25,701
2	**Kalamnuri (M Cl)**	Hingoli	24784	5	11,25,701
3	**Kandhar (M Cl)**	Nanded	24843	5	11,25,701
4	**Loha (M Cl)**	Nanded	24125	5	11,25,701
5	**Mantha NP**	Jalna	22005	5	11,25,701
6	**Bhum (M Cl)**	Osmanabad	18561	5	11,25,701
7	**Chakur (NP)**	Latur	18627	5	11,25,701
8	**Dharur (M Cl)**	Beed	20417	5	11,25,701
9	**Gangapur (M Cl)**	Aurangabad	18777	5	11,25,701
10	**Himayatnagar (NP)**	Nanded	20285	5	11,25,701
11	**Jafrabad NP**	Jalna	15910	5	11,25,701
12	**Murum (M Cl)**	Osmanabad	18371	5	11,25,701
13	**Naigaon (NP)**	Nanded	16719	5	11,25,701
14	**Naldurg (M Cl)**	Osmanabad	18341	5	11,25,701
15	**Paranda (M Cl)**	Osmanabad	18758	5	11,25,701
16	**Phulambri (NP)**	Aurangabad	16665	5	11,25,701
17	**Sonpeth (M Cl)**	Parbhani	15765	5	11,25,701
18	**Wadavani (NP)**	Beed	15000	5	11,25,701

Aurangabad Division

ULBs with requirement of 10 KLD FSTP

SN	ULB Name	District	Population (as per Census 2011)	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Ambad (M Cl)**	Jalna	31553	10	17,28,404
2	**Ausa (M Cl)**	Latur	36118	10	17,28,404
3	**Bhokar (M Cl)**	Nanded	32899	10	17,28,404
4	**Dharmabad (M Cl)**	Nanded	33741	10	17,28,404
5	**Georai (M Cl)**	Beed	33562	10	17,28,404
6	**Hadgaon (M Cl)**	Nanded	27433	10	17,28,404
7	**Kaij (NP)**	Beed	30704	10	17,28,404
8	**Kalamb (M Cl)**	Osmanabad	25713	10	17,28,404
9	**Kannad (M Cl)**	Aurangabad	40759	10	17,28,404
10	**Kinwat (M Cl)**	Nanded	28454	10	17,28,404
11	**Manwath (M Cl)**	Parbhani	32488	10	17,28,404
12	**Mukhed (M Cl)**	Nanded	27650	10	17,28,404
13	**Nilanga (M Cl)**	Latur	36172	10	17,28,404
14	**Paithan (M Cl)**	Aurangabad	41536	10	17,28,404
15	**Partur (M Cl)**	Jalna	35883	10	17,28,404
16	**Pathri (M Cl)**	Parbhani	36853	10	17,28,404
17	**Purna (M Cl)**	Parbhani	36433	10	17,28,404
18	**Tuljapur (M Cl)**	Osmanabad	34011	10	17,28,404
19	**Umarga (M Cl)**	Osmanabad	35477	10	17,28,404
20	**Vaijapur (M Cl)**	Aurangabad	41296	10	17,28,404
21	**Vashi (NP)**	Osmanabad	27826	10	17,28,404
22	**Ahmadpur (M Cl)**	Latur	43936	10	17,28,404
23	**Jintur (M Cl)**	Parbhani	44291	10	17,28,404
24	**Gangakhed (M Cl)**	Parbhani	49891	10	17,28,404
25	**Manjlegaon (M Cl)**	Beed	49453	10	17,28,404
26	**Sailu (M Cl)**	Parbhani	46915	10	17,28,404

Aurangabad Division

ULBs with requirement of 15 KLD FSTP

SN	ULB Name	District	Population (as per Census 2011)	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Deglur (M Cl)**	Nanded	54493	15	21,90,253
2	**Sillod (M Cl)**	Aurangabad	58230	15	21,90,253
3	**Ambejogai (M Cl)**	Beed	73975	15	21,90,253
4	**Basmath (M Cl)**	Hingoli	68846	15	21,90,253

Aurangabad Division

ULBs with requirement of 20 KLD FSTP

SN	ULB Name	District	Population (as per Census 2011)	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Bid (M Cl)**	Beed	146709	20	25,72,962
2	**Hingoli (M Cl)**	Hingoli	85103	20	25,72,962
3	**Jalna (M Cl)**	Jalna	285577	20	25,72,962
4	**Latur (M Cl)**	Latur	382940	20	25,72,962
5	**Osmanabad (M Cl)**	Osmanabad	111825	20	25,72,962
6	**Parbhani (M Cl)**	Parbhani	307170	20	25,72,962
7	**Parli (M Cl)**	Beed	90975	20	25,72,962
8	**Udgir (M Cl)**	Latur	103550	20	25,72,962

Kokan Division

ULBs with requirement of 3 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Devgad - Jamsande**	Sindhurdurg	2417	3	9,52,087
2	**Devrukh**	Ratnagiri	12689	3	9,52,087
3	**Guhagar**	Ratnagiri	3205	3	9,52,087
4	**Jawhar (M Cl)**	Palghar	12040	3	9,52,087
5	**Kasai - Dodamarg (NP)**	Sindhurdurg	3811	3	9,52,087
6	**Khalapur(NP)**	Raigad	3556	3	9,52,087
7	**Lanja MC**	Ratnagiri	14377	3	9,52,087
8	**Mandangad (NP)**	Ratnagiri	2911	3	9,52,087
9	**Mangaon (NP)**	Raigad	1718	3	9,52,087
10	**Matheran (M Cl)**	Raigad	4393	3	9,52,087
11	**Mhasala (NP)**	Raigad	9679	3	9,52,087
12	**Mokhada**	Palghar	8224	3	9,52,087
13	**Murud Janjira (M Cl)**	Raigad	12228	3	9,52,087
14	**Poladpur(NP)**	Raigad	5297	3	9,52,087
15	**Rajapur (M Cl)**	Ratnagiri	9753	3	9,52,087
16	**Shahapur (NP)**	Thane	11623	3	9,52,087
17	**Tala (NP)**	Raigad	5734	3	9,52,087
18	**Talasari**	Palghar	4374	3	9,52,087
19	**Vengurla (M Cl)**	Sindhurdurg	12392	3	9,52,087
20	**Vikramgad**	Palghar	5991	3	9,52,087
21	**Wabhave - Vaibhavwadi (NP)**	Sindhurdurg	2297	3	9,52,087

Kokan Division

ULBs with requirement of 5 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Alibag (M Cl)**	Raigad	20743	5	11,70,904
2	**Dapoli Camp (NP)**	Ratnagiri	15713	5	11,70,904
3	**Kankavli (NP)**	Sindhurdurg	16398	5	11,70,904
4	**Khed (M Cl)**	Ratnagiri	16892	5	11,70,904
5	**Kudal**	Sindhurdurg	16015	5	11,70,904
6	**Malwan (M Cl)**	Sindhurdurg	18648	5	11,70,904
7	**Roha Ashtami (M Cl)**	Raigad	20849	5	11,70,904
8	**Sawantwadi (M Cl)**	Sindhurdurg	23851	5	11,70,904
9	**Shrivardhan (M Cl)**	Raigad	15123	5	11,70,904

Kokan Division

ULBs with requirement of 10 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Karjat (M Cl)**	Raigad	29663	10	18,07,415
2	**Mahad (M Cl)**	Raigad	27536	10	18,07,415
3	**Pen (M Cl)**	Raigad	37852	10	18,07,415

Kokan Division

ULBs with requirement of 15 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Chiplun (M Cl)**	Ratnagiri	55139	15	22,95,571
2	**Dahanu (M Cl)**	Palghar	50287	15	22,95,571
3	**Khopoli (M Cl)**	Raigad	71416	15	22,95,571
4	**Palghar (M Cl)**	Palghar	68930	15	22,95,571

Kokan Division

ULBs with requirement of 20 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Ratnagiri (M Cl)**	Ratnagiri	76229	20	27,00,136

Nagpur Division

ULBs with requirement of 3 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Arjuni (NP)**	Gondiya	9472	3	9,09,275
2	**Ashti (NP)**	Wardha	5634	3	9,09,275
3	**Bhamaragad (NP)**	Gadchiroli	4046	3	9,09,275
4	**Dhanora (NP)**	Gadchiroli	6109	3	9,09,275
5	**Etapalli (NP)**	Gadchiroli	6742	3	9,09,275
6	**Gond Pipari (NP)**	Chandrapur	8474	3	9,09,275
7	**Goregaon (NP)**	Gondiya	8766	3	9,09,275
8	**Jivati (NP)**	Chandrapur	3764	3	9,09,275
9	**Korchi (NP)**	Gadchiroli	3256	3	9,09,275
10	**Korpana (NP)**	Chandrapur	5195	3	9,09,275
11	**Kuhi (NP)**	Nagpur	10436	3	9,09,275
12	**Kurkheda (NP)**	Gadchiroli	7430	3	9,09,275
13	**Lakhandur (NP)**	Bhandara	9231	3	9,09,275
14	**Mohadi (NP)**	Bhandara	6635	3	9,09,275
15	**Mohpa (M Cl)**	Nagpur	6987	3	9,09,275
16	**Mowad (M Cl)**	Nagpur	8777	3	9,09,275
17	**Mulchera (NP)**	Gadchiroli	1268	3	9,09,275
18	**Parseoni**	Nagpur	11156	3	9,09,275
19	**Pombhurna (NP)**	Chandrapur	6308	3	9,09,275
20	**Sadak Arjuni (NP)**	Gondiya	5975	3	9,09,275
21	**Salekasa (NP)**	Gondiya	1023	3	9,09,275
22	**Samudrapur (NP)**	Wardha	6603	3	9,09,275
23	**Saoli (NP)**	Chandrapur	8924	3	9,09,275
24	**Selu (NP)**	Wardha	10489	3	9,09,275
25	**Sironcha (NP)**	Gadchiroli	7427	3	9,09,275
26	**Karanja (NP)**	Wardha	13369	3	9,09,275
27	**Lakhani (NP)**	Bhandara	12636	3	9,09,275
28	**Sindewahi**	Chandrapur	12914	3	9,09,275
29	**Sindi (M Cl)**	Wardha	12858	3	9,09,275
30	**Aheri (NP)**	Gadchiroli	14609	3	9,09,275
31	**Bhiwapur (NP)**	Nagpur	14268	3	9,09,275
32	**Deori**	Gondiya	14579	3	9,09,275
33	**Khapa (M Cl)**	Nagpur	14659	3	9,09,275

Nagpur Division

ULBs with requirement of 5 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Pauni (M Cl)**	Bhandara	22821	5	11,13,325
2	**Deoli (M Cl)**	Wardha	22065	5	11,13,325

3	**Narkhed (M Cl)**	Nagpur	21127	5	11,13,325
4	**Ramtek (M Cl)**	Nagpur	22310	5	11,13,325
5	**Sakoli (NP)**	Bhandara	21764	5	11,13,325
6	**Armori (NP)**	Gadchiroli	18504	5	11,13,325
7	**Chamorsi (NP)**	Gadchiroli	15952	5	11,13,325
8	**Kalameshwar (M Cl)**	Nagpur	19578	5	11,13,325

Nagpur Division

ULBs with requirement of 10 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Brahmapuri (M Cl)**	Chandrapur	36025	10	17,06,918
2	**Chimur Municipal Council**	Chandrapur	25741	10	17,06,918
3	**Desaiganj (M Cl)**	Gadchiroli	28781	10	17,06,918
4	**Gadchandur(MC)**	Chandrapur	26575	10	17,06,918
5	**Nagbhid (M Cl)**	Chandrapur	26000	10	17,06,918
6	**Pulgaon (M Cl)**	Wardha	33925	10	17,06,918
7	**Savner (M Cl)**	Nagpur	32498	10	17,06,918
8	**Tirora (M Cl)**	Gondiya	25181	10	17,06,918
9	**Arvi (M Cl)**	Wardha	42822	10	17,06,918
10	**Katol (M Cl)**	Nagpur	43267	10	17,06,918
11	**Tumsar (M Cl)**	Bhandara	44869	10	17,06,918
12	**Warora (M Cl)**	Chandrapur	46532	10	17,06,918

Nagpur Division

ULBs with requirement of 15 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Gadchiroli (M Cl)**	Gadchiroli	54152	15	21,61,964
2	**Bhadravati (M CI)**	Chandrapur	60565	15	21,61,964

Nagpur Division

ULBs with requirement of 20 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Bhandara (M Cl)**	Bhandara	91845	20	25,39,156
2	**Gondiya (M Cl)**	Gondiya	132813	20	25,39,156
3	**Hinganghat (M Cl)**	Wardha	101805	20	25,39,156
4	**Kamptee (M Cl)**	Nagpur	86793	20	25,39,156
5	**Wardha (M Cl)**	Wardha	106444	20	25,39,156

Nashik Division

ULBs with requirement of 3 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Deola NP**	Nashik	12049	3	9,20,767
2	**Dhadgaon Wadfalya (NP)**	Nandurbar	1253	3	9,20,767
3	**Karjat (NP)**	Ahmadnagar	11659	3	9,20,767
4	**Parner (NP)**	Ahmadnagar	13119	3	9,20,767
5	**Peth NP**	Nashik	6858	3	9,20,767
6	**Surgana NP**	Nashik	6144	3	9,20,767

Nashik Division

ULBs with requirement of 5 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Akole(NP)**	Ahmadnagar	18278	5	11,28,940
2	**Bodwad**	Jalgaon	24221	5	11,28,940
3	**Dindori NP**	Nashik	17734	5	11,28,940
4	**Kalwan NP**	Nashik	22698	5	11,28,940
5	**Nandgaon (M Cl)**	Nashik	23604	5	11,28,940
6	**Newasa (NP)**	Ahmadnagar	22618	5	11,28,940
7	**Niphad NP**	Nashik	20249	5	11,28,940
8	**Sakri (NP)**	Dhule	21764	5	11,28,940
9	**Savda (M Cl)**	Jalgaon	20584	5	11,28,940
10	**Shevgaon (M Cl)**	Ahmadnagar	15665	5	11,28,940

Nashik Division

ULBs with requirement of 10 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Bhadgaon (M Cl)**	Jalgaon	37214	10	17,34,194
2	**Chandwad (MC)**	Nashik	25341	10	17,34,194
3	**Deolali Pravara (M Cl)**	Ahmadnagar	30997	10	17,34,194
4	**Dharangaon (M Cl)**	Jalgaon	35375	10	17,34,194
5	**Dondaicha-Warwade(M Cl)**	Dhule	46767	10	17,34,194
6	**Erandol (M Cl)**	Jalgaon	31071	10	17,34,194
7	**Faizpur (M Cl)**	Jalgaon	26602	10	17,34,194
8	**Igatpuri (M Cl)**	Nashik	30989	10	17,34,194
9	**Jamkhed (M Cl)**	Ahmadnagar	34017	10	17,34,194
10	**Jamner (M Cl)**	Jalgaon	46762	10	17,34,194
11	**Nawapur (M Cl)**	Nandurbar	34207	10	17,34,194
12	**Parola (M Cl)**	Jalgaon	37666	10	17,34,194
13	**Pathardi (M Cl)**	Ahmadnagar	27211	10	17,34,194

14	**Rahuri (M Cl)**	Ahmadnagar	38813	10	17,34,194
15	**Raver (M Cl)**	Jalgaon	27039	10	17,34,194
16	**Satana (M Cl)**	Nashik	37701	10	17,34,194
17	**Shrigonda (M Cl)**	Ahmadnagar	31134	10	17,34,194
18	**Talode (M Cl)**	Nandurbar	26363	10	17,34,194
19	**Varangaon (NP)**	Jalgaon	28410	10	17,34,194
20	**Yawal (M Cl)**	Jalgaon	36706	10	17,34,194

Nashik Division

ULBs with requirement of 15 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Chopda (M Cl)**	Jalgaon	72783	15	21,99,021
2	**Pachora (M Cl)**	Jalgaon	59609	15	21,99,021
3	**Sangamner (M Cl)**	Ahmadnagar	65804	15	21,99,021
4	**Shahade (M Cl)**	Nandurbar	61376	15	21,99,021
5	**Yevla (M Cl)**	Nashik	56000	15	21,99,021

Nashik Division

ULBs with requirement of 20 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Ahmadnagar (M Corp.)**	Ahmadnagar	350859	20	25,84,520
2	**Amalner (M Cl)**	Jalgaon	95994	20	25,84,520
3	**Bhusawal (M Cl)**	Jalgaon	187421	20	25,84,520
4	**Chalisgaon(M Cl)**	Jalgaon	97551	20	25,84,520
5	**Dhule (M Corp.)**	Dhule	375559	20	25,84,520
6	**Jalgaon (M Corp.)**	Jalgaon	460228	20	25,84,520
7	**Malegaon (M Corp.)**	Nashik	471312	20	25,84,520
8	**Manmad (M Cl)**	Nashik	80058	20	25,84,520
9	**Shrirampur (M Cl)**	Ahmadnagar	89282	20	25,84,520

Pune Division

ULBs with requirement of 3 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Dahiwadi**	Satara	2427	3	9,45,379
2	**Dudhani (M Cl)**	Solapur	11214	3	9,45,379
3	**Kadegaon**	Sangli	11821	3	9,45,379
4	**Khanapur**	Sangli	6457	3	9,45,379
5	**Khandala**	Satara	6832	3	9,45,379
6	**Madha**	Solapur	11027	3	9,45,379

7	**Maindargi (M Cl)**	Solapur	12363	3	9,45,379
8	**Malkapur (M Cl)**	Kolhapur	5339	3	9,45,379
9	**Medha**	Satara	4678	3	9,45,379
10	**Murgud (M Cl)**	Kolhapur	11194	3	9,45,379
11	**Patan**	Satara	13779	3	9,45,379

Pune Division

ULBs with requirement of 5 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Bhor (M Cl)**	Pune	18453	5	11,61,091
2	**Karmala (M Cl)**	Solapur	23199	5	11,61,091
3	**Kavathemahakal**	Sangli	17390	5	11,61,091
4	**Koregaon**	Satara	24690	5	11,61,091
5	**Kurduvadi (M Cl)**	Solapur	22463	5	11,61,091
6	**Lonand**	Satara	18723	5	11,61,091
7	**Malshiras**	Solapur	21985	5	11,61,091
8	**Mangalvedhe (M Cl)**	Solapur	21824	5	11,61,091
9	**Mhaswad (M Cl)**	Satara	24120	5	11,61,091
10	**Rahimatpur (M Cl)**	Satara	17633	5	11,61,091
11	**Shirala**	Sangli	15665	5	11,61,091
12	**Waduj**	Satara	17636	5	11,61,091

Pune Division

ULBs with requirement of 10 KLD FSTP

SN	ULB Name	District	Population	Size of FSTP (in KLD)	Cost of FSTP (in Lakhs)
1	**Akkalkot (M Cl)**	Solapur	40103	10	17,89,207
2	**Ashta (M Cl)**	Sangli	37500	10	17,89,207
3	**Daund (M Cl)**	Pune	49450	10	17,89,207
4	**Gadhinglaj (M Cl)**	Kolhapur	27185	10	17,89,207
5	**Indapur (M Cl)**	Pune	25515	10	17,89,207
6	**Junnar (M Cl)**	Pune	25315	10	17,89,207
7	**Mohol Nagar Parishad**	Solapur	27833	10	17,89,207
8	**Palus**	Sangli	26151	10	17,89,207
9	**RajguruNagar**	Pune	31000	10	17,89,207
10	**Sangole (M Cl)**	Solapur	34321	10	17,89,207
11	**Vita (M Cl)**	Sangli	48289	10	17,89,207

Pune Division					
ULBs with requirement of 15 KLD FSTP					
SN	**ULB Name**	**District**	**Population**	**Size of FSTP (in KLD)**	**Cost of FSTP (in Lakhs)**
1	**Jath**	Sangli	65000	15	22,69,533
2	**Phaltan (M Cl)**	Satara	52118	15	22,69,533
3	**Uran Islampur (M Cl)**	Sangli	67391	15	22,69,533

Pune Division					
ULBs with requirement of 20 KLD FSTP					
SN	**ULB Name**	**District**	**Population**	**Size of FSTP (in KLD)**	**Cost of FSTP (in Lakhs)**
1	**Barshi (M Cl)**	Solapur	1.00E+05	20	26,67,253
2	**Satara (M Cl)**	Satara	1.00E+05	20	26,67,253

विवरणपत्र-2

A. Measurement Sheet – 3 KLD

1. SDB

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**						
	At Sludge drying bed						
	Excavation for RCC wall	1	27.90	0.80	1.50	33.48	
	Leachate collection tank @ SDB	2	0.50	0.50	0.50	0.25	
					TOTAL	**33.73**	**cum**
2	**Backfilling**		33.73	-6.77		26.96	**cum**
	SDB bed	2	4.70	3.10	0.20	5.83	
					TOTAL	**32.79**	**cum**
3	**Providing soling using 80 mm**						
	For Foundation	1	27.90	0.50	0.15	2.09	
	Leachate collection tank @ SDB - Small	2	0.50	0.50	0.15	0.08	
					TOTAL	**2.17**	**cum**
4	**PCC M-10**						
	Below Foundation	1	27.90	0.50	0.10	1.40	
	Leachate collection tank @ SDB - Small	2	0.50	0.50	0.10	0.05	
					TOTAL	**1.45**	**cum**
5	**R.C.C. work in foundations M-25**						
	RCC footing under wall	1	27.90	0.30	0.20	1.67	
	RCC slab of SDB	2	4.70	3.10	0.20	5.83	
	RCC slab of leachate tank @ SDB - Small	2	0.50	0.50	0.20	0.10	
					TOTAL	**7.60**	**cum**
6	**R.C.C. M-25 Wall**						
	RCC wall of SDB - BGL	1	13.40	0.20	0.60	1.61	
	RCC Wall of SDB- BGL	1	14.40	0.20	0.60	1.73	
	RCC wall of SDB - AGL	1	13.40	0.20	1.30	3.48	
	RCC wall of SDB - AGL	1	14.40	0.20	1.30	3.74	
	Wall of leachate tank	1	4.20	0.20	1.20	1.01	
					TOTAL	**11.57**	**cum**
7	**RCC M - 25 BEAM**						
	B-1 Beam	1	13.40	0.30	**0.45**	1.81	
	B-2 Beam	1	14.40	0.30	**0.45**	1.94	
						3.75	

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
8	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	7.60	100.00		760.20	
	For Wall @100kg/Cum	1	11.57	100.00		1157.20	
	For Beam @ 100 kg/cum	1	3.75	100.00		375.30	
						2292.70	kg
					TOTAL	**2.293**	**M.T.**
9	**Providing and filling sand (Coarse Sand and Gravel)**						
	At Sludge drying bed						
	Large gravel (dia.=5 cm)	2	4.70	3.10	0.20	5.83	
	Medium gravel (dia.=2 cm)	2	4.70	3.10	0.10	2.91	
	Sand	2	4.70	3.10	0.10	2.91	
					TOTAL	**11.66**	**cum**
10	**Internal plastering - 12 mm thick**						
	At SDB						
	SDB Walls	2	15.60		1.30	40.56	
	Wall at Leachate Collection Tank	2	2.00		1.20	4.80	
					TOTAL	**45.36**	**Sq.m**
11	**Royalty**						
	Item No. 3 Providing soling using 80 mm					2.17	
	Item No. 4 PCC M-10 (For Sand Only)		0.45	1.45		0.65	
	Item No. 5 R.C.C. work in foundations M-20		0.425	7.60		3.23	
	Item No. 6 R.C.C. M-20 wall		0.425	11.57		4.92	
	Item No.8 Poviding & Filling sand (Coarse Sand & gravel)					11.66	
					TOTAL	**22.62**	**cum**

2. ABR

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**	1	5.95	2.20	1.45	**18.98**	**cum**
2	**Backfilling**	-1	4.75	1.30	1.45	-8.95	
					TOTAL	**10.03**	**cum**
3	**Providing soling using 80 mm**	1	5.75	2.00	0.15	**1.73**	**cum**
4	**PCC M-10**	1	5.75	2.00	0.10	**1.15**	**cum**
5	**R.C.C. work in foundations M-25**	1	5.35	1.60	0.20	**1.71**	**cum**
6	**R.C.C. M-25 Wall**						
a	R.C.C. M-20 for Walls	1	14.95	0.15	1.20	2.69	
b	R.C.C. M-20 Slab for top slab	1	4.30	1.30	0.10	0.56	
					TOTAL	**3.25**	**cum**
7	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	1.71	100.00		171.20	
	For Wall @100kg/Cum	1	3.25	100.00		325.00	
						496.20	kg
					TOTAL	**0.496**	**M.T.**
8	**Providing and filling sand (Coarse Sand and Gravel)**	1	3.00	1.00	0.15	0.45	
		1	3.00	1.00	0.15	0.45	
		1	5.40	1.80	0.10	0.97	
					TOTAL	**1.87**	Cum
9	**Plaster 12 mm (ABR Internal Walls)**	4	4.00		1.20	**19.20**	sqmt
10	**Cement concrete cover**	4				**4.00**	**Nos.**
11	**Royalty**						
	Item No. 4 Providing soling using 80 mm					1.73	
	Item No. 5 PCC M-10 (For Sand Only)		0.45	1.15		0.52	
	Item No. 6 R.C.C. work in foundations M-25		0.425	1.71		0.73	

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
	Item No. 7 R.C.C. M-25 wall & Top Slab		0.425	3.25		1.38	
	Item No. 8 Sand (Coarse Sand & Gravel Media)					0.45	
					TOTAL	**4.80**	**cum**

3. PGF

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**						
	At planted gravel filter	1	5.10	3.90	1.35	**26.85**	
2	**Backfilling @ 15% of Excavation**	-1	4.50	3.30	1.35	-20.05	**Cum**
					TOTAL	**6.80**	
3	**Providing soling using 80 mm**						
	PGF	1	4.90	3.70	0.15	2.72	
	For treated water tank	1	2.50	2.50	0.15	0.94	
					TOTAL	**3.66**	**Cum**
4	**PCC M-10**						
	PGF	1	4.90	3.70	0.10	1.81	
	For treated water tank	1	2.50	2.50	0.15	0.94	
					TOTAL	**2.75**	**cum**
5	**R.C.C. work in foundations M-25**						
	PGF	1	4.50	3.30	0.20	2.97	
					TOTAL	**2.97**	**Cum**

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
6	**R.C.C. M-25 Wall**						
	PGF	1	19.05	0.15	1.20	3.43	
					TOTAL	**3.43**	**cum**
6.1	**Brick Wall**						
	PGF Inlet & Outlet chamber Walls	2	3.60	0.23	0.70	1.16	
					TOTAL	**1.16**	**cum**
7	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	2.97	100.00		297.00	
	For Wall @100kg/Cum	1	3.43	100.00		342.90	
						639.90	kg
					TOTAL	**0.64**	**M.T.**
8	**Providing and filling sand (Coarse Sand and Gravel)**						
	At PGF						
	Large gravel (dia.=5 cm)	2	3.10	1.80	0.15	1.67	Cum
	Medium gravel (dia.=2 cm)	2	3.10	1.80	0.15	1.67	Cum
	Sand	2	3.10	1.80	0.15	1.67	Cum
					TOTAL	**5.02**	**Cum**
9	**Plastering 12 mm (PGF)**						
	PGF Walls	2	10.80		1.00	21.60	
	PGF - Inlet & Outlet Chamber wall	2	7.20		0.70	10.08	
					TOTAL	**31.68**	**Sq.m**
10	**Plantation**	2.0	2.600	1.80	10.00	**100**	**Nos**

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
11	**Treated water tank**	1			**TOTAL**	**3000**	liters
12	**Royalty**						
	Item No. 4 Providing soling using 80 mm					3.66	
	Item No. 5 PCC M-10 (For Sand Only)		0.45	2.75		1.24	
	Item No. 6 R.C.C. work in foundations M-25		0.425	2.97		1.26	
	Item No. 7 R.C.C. M-25 wall & Top Slab		0.425	3.43		1.46	
	Item No. 8 Sand (Coarse Sand & Gravel Media)					5.02	
					TOTAL	**12.64**	**cum**

4. Consolidate MS

Item No.	Description	Qty	Unit
1	**Excavation for foundation**	**79.56**	**Cum**
2	**Backfilling**	**49.62**	**Cum**
3	**Providing soling using 80 mm**	**7.55**	**Cum**
4	**PCC M-10**	**5.35**	**cum**
5	**R.C.C. work in foundations M-25**	**12.28**	**Cum**
6	**R.C.C. M-25 Wall**	**18.42**	**cum**
7	**R.C.C. M-25 Beam**	**3.75**	**cum**
8	**Brick Wall**	**1.16**	**cum**
9	**Providing and fixing in position TMT / HYSD steel bars reinforcement**	**3.446**	**M.T.**
10	**Providing and filling sand (Coarse Sand and Gravel)**		
10.1	Large gravel (dia.=5 cm)	7.95	**Cum**
10.2	Medium gravel (dia.=2 cm)	5.04	**Cum**
10.3	Sand	5.56	**Cum**
		18.55	**Cum**
11	**Internal Plastering - 12 mm thick**	**95.44**	**Sq.m**
12	**Cement concrete cover**	**4.00**	**Nos.**
13	**Plantation**	**100.00**	**Nos**
14	**2.0 HP capacity of pump Centrifugal Monoblock Pump set (Single Stage)**	**4**	Nos
15	**DOL starter upto 7.5 HP Capacity**	**2**	Nos
16	**3 Core 10 mm PVC insulated, PVC Seathed, Copper Conductor wires**	**100**	rmt
17	**uPVC pipe - 63 mm dia**	**100**	rmt
18	**Treated water tank**	**3000**	liters
19	**Royalty**	**40.13**	**cum**
20	**Chlorination 25 gm/hr system**	**1.00**	**Nos**

B. Abstract Sheet – 3 KLD

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
1.1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5m.) By Mechanical Means													
	79.56	Cum	140	140	146	146	145	140	**11,139**	**11,139**	**11,616**	**11,616**	**11,536**	**11,139**
1.2	Excavation for foundation / pipe trenches in hard murum including removing the excavated material upto a distace of 50 M and lifts as below, stacking and spreading as directed by Engineer-incharge, normal dewatering, preparing the bed for foundation and excluding backfilling, etc. complete. Lift 0 to 1.5 M													
	-	Cum	157	157	170	165	165	157	-	-	-	-	-	-
1.3	Excavation for foundation / pipe trenches in hard murum and boulders, W.B.M. road including removing the excavated material upto a distance of 50 M beyond the area and lifts as below, stacking and spreading as directed by Engineer-incharge, normal dewatreing, preparing the bed for foundation and excluding backfilling, etc. complete. Lift 0 to 1.5 M													
	-	Cum	175	175	192	185	185	176	-	-	-	-	-	-
2.1	Filling in plinth and floors / trenches with contractor’s murum for bedding in 15cm to 20cm layers including watering and compaction royalty charges etc.complete.													
	49.62	Cum	701	701	778	685	760	746	**34,783**	**34,783**	**38,604**	**33,989**	**37,711**	**37,016**
2.2	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc. complete.													
	-	Cum	72	72	73	70	73	73	-	-	-	-	-	-
3	Providing dry trap / granite / quartzite / gneiss, rubble stone soling in 15cm to 20 cm thick layers (including hand packing and compacting), etc. complete.													
	7.55	cum	993	993	1,143	1,009	1,029	1,009	**7,497**	**7,497**	**8,629**	**7,617**	**7,768**	**7,617**
4	Providing and laying in situ following grades of Plain Cement concrete of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including normal dewatering, form work, compaction and curing, etc, complete. Use of L & T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.)													
	5.35	Cum	4,262	4,262	4,691	4,301	4,652	4,323	**22,783**	**22,783**	**25,076**	**22,991**	**24,867**	**23,109**
5	Providing and laying in situ Cement concrete of trap/granite/quartzite/ gneiss metal for RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stanchions including normal dewatering, 'plywood form work, bully/steel propups, compaction, finishing and curing, etc, complete. (By weigh batching and mix esign for M-250 and M-300 only. Use of L & T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (excluding M.S. or Tor reinforcement)													
	12.28	Cum	6,024	6,024	6,445	6,001	6,367	6,047	**73,999**	**73,999**	**79,170**	**73,716**	**78,212**	**74,281**
6	Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by ngineer-in-charge For RCC M-250 grade Slabs / Landings / Vertical Walls / Waist Slabs / Steps for Staircase including normal dewatering, centering, 'plywood formwork, ully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted) (excluding M.S, or Tor einforcement)													
	18.42	Cum	7,692	7,692	8,119	7,703	8,083	7,715	**1,41,674**	**1,41,674**	**1,49,539**	**1,41,877**	**1,48,876**	**1,42,098**
7	Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by ngineer-in-charge For RCC M-250 grade Beam/Braces/Lintels ncluding normal dewatering, centering, 'plywood formwork, ully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted)													

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Auranga bad	Amravat i	Nagpur	Konkan	Nashik	Pune	Auranga bad
	(excluding M.S, or Tor einforcement)													
	3.75	cum	7,128	7,128	7,552	7,123	7,491	7,173	**26,751**	**26,751**	**28,343**	**26,733**	**28,114**	**26,920**
8	Providing Second Class Burnt Brick masonry with conventional / IS. type bricks in cement mortar 1:6 including scaffolding, racking out joints pointing in C.M 1:3 and watering etc. in pillars of curved shapes, as shown on the drawing or as directed etc. complete. 27.01 BDG 1													
	1.16	cum	5,820	5,820	5,820	5,820	5,820	5,820	**6,747**	**6,747**	**6,747**	**6,747**	**6,747**	**6,747**
9	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.													
	3.45	M.T.	57,884	57,884	63,211	60,299	63,216	59,542	**1,99,441**	**1,99,441**	**2,17,796**	**2,07,762**	**2,17,813**	**2,05,154**
10	Providing, lowering, laying and placing in position, shrouding material for porous pipe gallery / slotted pipe gallery/ trench gallery with all leads and lifts involved including transportation of materials to site of works, screening and washing of materials and placing in position with given section, etc. complete as directed by Engineer-incharge.													
10.1	40 mm Pabbles													
	7.95	Cum	1,493	1,493	1,366	1,583	1,215	1,499	**11,872**	**11,872**	**10,862**	**12,588**	**9,662**	**11,920**
10.2	12 to 20 mm Pabbles													
	5.0	Cum	1,807	1,807	1,653	1,826	1,467	1,801	**9,104**	**9,104**	**8,328**	**9,199**	**7,391**	**9,073**
10.3	Fine Sand													
	5.6	Cum	1,000	1,000	1,700	1,242	1,575	1,000	**5,560**	**5,560**	**9,452**	**6,906**	**8,757**	**5,560**
11	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete. PWD, e-DSR(Bd.L.2 Page No. 368													
	95	sq.m	243	243	243	243	243	243	**23,192**	**23,192**	**23,192**	**23,192**	**23,192**	**23,192**
12	Providing and laying cement concrete manhole cover (300 mm X 300 mm)													
	4	nos	1,000	1,000	1,000	1,000	1,000	1,000	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**
13	Preparation of good soil and manure and throghly mixed, leveleing, watering and planting well developed canna bed of 1.5' height and maintaining till well established etc complete.													
	100	Nos	62.4	62.4	62.4	62.4	62.4	62.4	**6,240**	**6,240**	**6,240**	**6,240**	**6,240**	**6,240**
14	2.0 HP capacity of pump Centrifugal Monoblock Pump set (Single Stage) - Providing, erecting and giving test of centrifugal Monoblock pump set conforming to IS 9079 operating at 2900 RPM with CI impeller, priming funnel, cock, suitable flanges at suction and delivery side. Pump shall have common shaft for pump and motor. Motor shall be suitable for working on 415 V ± 10%, 3 Ph, 50 Hz A.C. Supply. Motor shall be TEFC type. Pump set shall be suitable for working at various discharge and head requirements. Pump shall be erected on Provided C.C. foundation block with suitable foundation bolts grouted in C.C. foundation block													
	4	Nos	13,891	13,891	13,891	13,891	13,891	13,891	**55,564**	**55,564**	**55,564**	**55,564**	**55,564**	**55,564**

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
15	Supplying and erecting DOL starter to operate squirrel cage induction motor working on 380- 440 Volt, 3 phase, 50 Hz with no volt coil and over load element with necessary material and connected to supply, etc complete. Starter with original sheet steel encloser. upto 7.5 HP Capacity													
	2	Nos	1,618	1,618	1,618	1,618	1,618	1,618	**3,236**	**3,236**	**3,236**	**3,236**	**3,236**	**3,236**
16	3 core PVC insulated, PVC sheathed copper conductor flat submersible cable. Supplying and erecting, Flat flexible submersible cable with, Copper Conductor, PVC insulated, and PVC sheathed.													
	100	rmt	276	276	276	276	276	276	**27,600**	**27,600**	**27,600**	**27,600**	**27,600**	**27,600**
17.1	Providing and supplying in standard lengths ISI mark rigid unplasticised PVC pipes suitable for potable water with solvent cement joints including cost of couplers, as per IS specification no. 4985 / 1988 excluding GST levied by GOI and GOM in all respect, including transportation, freight charges, inspection charges, loading, unloading, conveyance to the departmental stores and stacking the same in closed shed duly protected from sun rays and rains including cost of jointing material i.e. solvent cement, etc. complete (selffit type to be jointed with cement solvent). - 90 mm OD													
	100	Rmt	99	99	99	110	99	99	**9,900**	**9,900**	**9,900**	**11,000**	**9,900**	**9,900**
17.2	Lowering, laying and jointing with P.V.C. pipes and specials of following class and diameter including cost of conveyance from stores to site of works including cost of all labour, material, except cement solvent, rubber ring, as per IS code, etc. complete (with cement solvent joint / ring fit joint). - 90 mm OD													
	100	Rmt	28	28	28	28	28	28	**2,800**	**2,800**	**2,800**	**2,800**	**2,800**	**2,800**
18	Water Supply and Sanitary Fitting 42.54 BDV Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of low density polythyler and built corrugation including of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow of all tanks capacity above 1000 to 20,000 litres As directed by engineer-incharge. Litre 11.00 1.00													
	3,000	Liters	11	11	11	11	11	11	**33,000**	**33,000**	**33,000**	**33,000**	**33,000**	**33,000**
19	Providing, erecting, commissioning & giving test & trial for a period of one monthincluding one year free maintenance after commissioning of Electro chlorinator capable of generating chlorine form common salt by electrolysis using electrodes in form of sodium hypo chlorite solution containing 6-8 gms/lit of available chlorine in batch or continuous process and capable of providing 8 hrs storage of hypochlorite in case of power failure.													
	1	Nos	192394	192394	192394	192394	192394	192394	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**
								Total cost for setting up 3 KLD FSTP	**9,09,275**	**9,09,275**	**9,52,087**	**9,20,767**	**9,45,379**	**9,18,560**
19	Royalty													
	40	cum	141.34	141.34	141.34	141.34	141.34	141.34	5,672	5,672	5,672	5,672	5,672	5,672

A. Measurement Sheet – 5 KLD

1. SDB

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**	1	7.15	2.50	1.45	**25.92**	**cum**
2	**Backfilling**	-1	5.95	1.60	1.45	-13.80	
					TOTAL	**12.11**	**cum**
3	**Providing soling using 80 mm**	1	6.95	2.30	0.15	**2.40**	**cum**
4	**PCC M-10**	1	6.95	2.30	0.10	**1.60**	**cum**
5	**R.C.C. work in foundations M-25**	1	6.55	1.90	0.20	**2.49**	**cum**
6	**R.C.C. M-25 Wall**						
a	R.C.C. M-20 for Walls	1	18.85	0.15	1.15	3.25	
b	R.C.C. M-20 Slab for top slab	1	5.50	1.60	0.15	1.32	
					TOTAL	**4.57**	**cum**
7	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	2.49	100.00		248.90	
	For Wall @100kg/Cum	1	4.57	100.00		457.16	
						706.06	kg
					TOTAL	**0.706**	**M.T.**
8	**Providing and filling sand (Coarse Sand and Gravel)**	1	3.90	1.30	0.15	0.76	
		1	3.90	1.30	0.15	0.76	
		1	5.40	1.80	0.10	0.97	
					TOTAL	**2.49**	Cum
9	**Plaster 12 mm (ABR Internal Walls)**	4	5.20		1.15	**23.92**	sqmt
10	**Cement concrete cover**	4				**4.00**	**Nos.**
11	**Royalty**						
	Item No. 4 Providing soling using 80 mm					2.40	
	Item No. 5 PCC M-10 (For Sand Only)		0.45	1.60		0.72	
	Item No. 6 R.C.C. work in foundations M-25		0.425	2.49		1.06	
	Item No. 7 R.C.C. M-25 wall & Top Slab		0.425	4.57		1.94	
	Item No. 8 Sand (Coarse Sand & Gravel Media)					0.76	
					TOTAL	**6.88**	**cum**

2. ABR

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**	1	7.15	2.50	1.45	**25.92**	**cum**
2	**Backfilling**	-1	5.95	1.60	1.45	-13.80	
					TOTAL	**12.11**	**cum**
3	**Providing soling using 80 mm**	1	6.95	2.30	0.15	**2.40**	**cum**
4	**PCC M-10**	1	6.95	2.30	0.10	**1.60**	**cum**
5	**R.C.C. work in foundations M-25**	1	6.55	1.90	0.20	**2.49**	**cum**
6	**R.C.C. M-25 Wall**						
a	R.C.C. M-20 for Walls	1	18.85	0.15	1.20	3.39	
b	R.C.C. M-20 Slab for top slab	1	5.50	1.60	0.10	0.88	
					TOTAL	**4.27**	**cum**
7	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	2.49	100.00		248.90	
	For Wall @100kg/Cum	1	4.27	100.00		427.30	
						676.20	kg
					TOTAL	**0.676**	**M.T.**
8	**Providing and filling sand (Coarse Sand and Gravel)**	1	3.90	1.30	0.15	0.76	
		1	3.90	1.30	0.15	0.76	
		1	5.40	1.80	0.10	0.97	
					TOTAL	**2.49**	Cum
9	**Plaster 12 mm (ABR Internal Walls)**	4	5.20		1.20	**24.96**	sqmt
10	**Cement concrete cover**	4				**4.00**	**Nos.**
11	**Royalty**						
	Item No. 4 Providing soling using 80 mm					2.40	
	Item No. 5 PCC M-10 (For Sand Only)		0.45	1.60		0.72	
	Item No. 6 R.C.C. work in foundations M-25		0.425	2.49		1.06	
	Item No. 7 R.C.C. M-25 wall & Top Slab		0.425	4.27		1.82	
	Item No. 8 Sand (Coarse Sand & Gravel Media)					0.76	
					TOTAL	**6.75**	**cum**

3. PGF

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**						
	At planted gravel filter	1	6.10	4.40	1.35	**36.23**	
2	**Backfilling @ 15% of Excavation**	-1	5.50	3.80	1.35	-28.22	**Cum**
					TOTAL	**8.02**	
3	**Providing soling using 80 mm**						
	PGF	1	5.90	4.20	0.15	3.72	
	For treated water tank	1	2.50	2.50	0.15	0.94	
					TOTAL	**4.65**	**Cum**
4	**PCC M-10**						
	PGF	1	5.90	4.20	0.10	2.48	
	For treated water tank	1	2.50	2.50	0.15	0.94	
					TOTAL	**3.42**	**cum**
5	**R.C.C. work in foundations M-25**						
	PGF	1	5.50	3.80	0.20	4.18	
					TOTAL	**4.18**	**Cum**
6	**R.C.C. M-25 Wall**						
	PGF	1	24.05	0.15	1.20	4.33	
					TOTAL	**4.33**	**cum**
6.1	**Brick Wall**						
	PGF Inlet & Outlet chamber Walls	2	4.60	0.23	0.70	1.48	
					TOTAL	**1.48**	**cum**
7	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	4.18	100.00		418.00	
	For Wall @100kg/Cum	1	4.33	100.00		432.90	
						850.90	kg
					TOTAL	**0.85**	**M.T.**
8	**Providing and filling sand (Coarse Sand and Gravel)**						
	At PGF						
	Large gravel (dia.=5 cm)	2	4.10	2.30	0.15	2.83	Cum
	Medium gravel (dia.=2 cm)	2	4.10	2.30	0.15	2.83	Cum
	Sand	2	4.10	2.30	0.15	2.83	Cum
					TOTAL	**8.49**	**Cum**
9	**Plastering 12 mm (PGF)**						
	PGF Walls	2	13.80		1.00	27.60	

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
	PGF - Inlet & Outlet Chamber wall	2	9.20		0.70	12.88	
					TOTAL	**40.48**	**Sq.m**
10	**Plantation**	2.0	3.600	2.30	10.00	**170**	**Nos**
11	**Treated water tank**	1			**TOTAL**	**3000**	liters
12	**Royalty**						
	Item No. 4 Providing soling using 80 mm					4.65	
	Item No. 5 PCC M-10 (For Sand Only)		0.45	3.42		1.54	
	Item No. 6 R.C.C. work in foundations M-25		0.425	4.18		1.78	
	Item No. 7 R.C.C. M-25 wall & Top Slab		0.425	4.33		1.84	
	Item No. 8 Sand (Coarse Sand & Gravel Media)					8.49	
					TOTAL	**18.29**	**cum**

4. Consolidated MS

Item No.	Description	Qty	Unit
1	**Excavation for foundation**	**104.88**	**Cum**
2	**Backfilling**	**63.87**	**Cum**
3	**Providing soling using 80 mm**	**9.78**	**Cum**
4	**PCC M-10**	**6.83**	**cum**
5	**R.C.C. work in foundations M-25**	**18.49**	**Cum**
6	**R.C.C. M-25 Wall**	**23.32**	**cum**
7	**R.C.C. M-25 Beam**	**4.77**	**cum**
8	**Brick Wall**	**1.48**	**cum**
9	**Providing and fixing in position TMT / HYSD steel bars reinforcement**	**4.658**	**M.T.**
10	**Providing and filling sand (Coarse Sand and Gravel)**		
10.1	Large gravel (dia.=5 cm)	13.19	**Cum**
10.2	Medium gravel (dia.=2 cm)	8.39	**Cum**
10.3	Sand	8.60	**Cum**
		30.18	**Cum**
11	**Internal Plastering - 12 mm thick**	**121.20**	**Sq.m**
12	**Cement concrete cover**	**4.00**	**Nos.**
13	**Plantation**	**170.00**	**Nos**
14	**2.0 HP capacity of pump Centrifugal Monoblock Pump set (Single Stage)**	**4**	Nos
15	**DOL starter upto 7.5 HP Capacity**	**2**	Nos
16	**3 Core 10 mm PVC insulated, PVC Seathed, Copper Conductor wires**	**100**	rmt
17	**uPVC pipe - 63 mm dia**	**100**	rmt
18	**Treated water tank**	**3000**	liters
19	**Royalty**	**59.08**	**cum**
20	**Chlorination 25 gm/hr system**	**1.00**	**Nos**

B. Abstract Sheet – 5 KLD

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
1.1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5m.) By Mechanical Means													
	104.88	Cum	140	140	146	146	145	140	**14,684**	**14,684**	**15,313**	**15,313**	**15,208**	**14,684**
1.2	Excavation for foundation / pipe trenches in hard murum including removing the excavated material upto a distace of 50 M and lifts as below, stacking and spreading as directed by Engineer-incharge, normal dewatering, preparing the bed for foundation and excluding backfilling, etc. complete. Lift 0 to 1.5 M													
	-	Cum	157	157	170	165	165	157	-	-	-	-	-	-
1.3	Excavation for foundation / pipe trenches in hard murum and boulders, W.B.M. road including removing the excavated material upto a distance of 50 M beyond the area and lifts as below, stacking and spreading as directed by Engineer-incharge, normal dewatreing, preparing the bed for foundation and excluding backfilling, etc. complete. Lift 0 to 1.5 M													
	-	Cum	175	175	192	185	185	176	-	-	-	-	-	-
2.1	Filling in plinth and floors / trenches with contractor's murum for bedding in 15cm to 20cm layers including watering and compaction royalty charges etc.complete.													
	63.87	Cum	701	701	778	685	760	746	**44,776**	**44,776**	**49,695**	**43,754**	**48,545**	**47,651**
2.2	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc. complete.													
	-	Cum	72	72	73	70	73	73	-	-	-	-	-	-
3	Providing dry trap / granite / quartzite / gneiss, rubble stone soling in 15cm to 20 cm thick layers (including hand packing and compacting), etc. complete.													
	9.78	cum	993	993	1,143	1,009	1,029	1,009	**9,714**	**9,714**	**11,181**	**9,870**	**10,066**	**9,870**

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
4	Providing and laying in situ following grades of Plain Cement concrete of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including normal dewatering, form work, compaction and curing, etc, complete. Use of L & T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.)													
	6.83	Cum	4,262	4,262	4,691	4,301	4,652	4,323	**29,127**	**29,127**	**32,058**	**29,393**	**31,792**	**29,543**
5	Providing and laying in situ Cement concrete of trap/granite/quartzite/ gneiss metal for RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stanchions including normal dewatering, 'plywood form work, bully/steel propups, compaction, finishing and curing, etc, complete. (By weigh batching and mix esign for M-250 and M-300 only. Use of L & T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (excluding M.S. or Tor reinforcement)													
	18.49	Cum	6,024	6,024	6,445	6,001	6,367	6,047	**1,11,402**	**1,11,402**	**1,19,187**	**1,10,976**	**1,17,745**	**1,11,827**
6	Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by ngineer-in-charge For RCC M-250 grade Slabs / Landings / Vertical Walls / Waist Slabs / Steps for Staircase including normal dewatering, centering, 'plywood formwork, ully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted) (excluding M.S, or Tor einforcement)													
	23.32	Cum	7,692	7,692	8,119	7,703	8,083	7,715	**1,79,398**	**1,79,398**	**1,89,356**	**1,79,654**	**1,88,517**	**1,79,934**
7	Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by ngineer-in-charge For RCC M-250 grade Beam/Braces/Lintels ncluding normal dewatering, centering, 'plywood formwork, ully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted) (excluding M.S, or Tor einforcement)													
	4.77	cum	7,128	7,128	7,552	7,123	7,491	7,173	**33,968**	**33,968**	**35,989**	**33,945**	**35,698**	**34,183**
8	Providing Second Class Burnt Brick masonry with conventional / IS. type bricks in cement mortar 1:6 including scaffolding, racking out joints pointing in C.M 1:3 and watering etc. in pillars of curved shapes, as shown on the drawing or as directed etc. complete. 27.01 BDG 1													
	1.48	cum	5,820	5,820	5,820	5,820	5,820	5,820	**8,621**	**8,621**	**8,621**	**8,621**	**8,621**	**8,621**

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
9	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.													
	4.66	M.T.	57,884	57,884	63,211	60,299	63,216	59,542	**2,69,630**	**2,69,630**	**2,94,444**	**2,80,880**	**2,94,467**	**2,77,353**
10	Providing, lowering, laying and placing in position, shrouding material for porous pipe gallery / slotted pipe gallery/ trench gallery with all leads and lifts involved including transportation of materials to site of works, screening and washing of materials and placing in position with given section, etc. complete as directed by Engineer-incharge.													
10.1	40 mm Pabbles													
	13.19	Cum	1,493	1,493	1,366	1,583	1,215	1,499	**19,692**	**19,692**	**18,017**	**20,879**	**16,025**	**19,771**
10.2	12 to 20 mm Pabbles													
	8.4	Cum	1,807	1,807	1,653	1,826	1,467	1,801	**15,160**	**15,160**	**13,868**	**15,319**	**12,307**	**15,109**
10.3	Fine Sand													
	8.6	Cum	1,000	1,000	1,700	1,242	1,575	1,000	**8,601**	**8,601**	**14,622**	**10,682**	**13,547**	**8,601**
11	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete. PWD, e-DSR(Bd.L.2 Page No. 368													
	121	sq.m	243	243	243	243	243	243	**29,452**	**29,452**	**29,452**	**29,452**	**29,452**	**29,452**
12	Providing and laying cement concrete manhole cover (300 mm X 300 mm)													
	4	nos	1,000	1,000	1,000	1,000	1,000	1,000	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**
13	Preparation of good soil and manure and throghly mixed, leveleing, watering and planting well developed canna bed of 1.5' height and maintaining till well established etc complete.													
	170	Nos	62.4	62.4	62.4	62.4	62.4	62.4	**10,608**	**10,608**	**10,608**	**10,608**	**10,608**	**10,608**

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
14	2.0 HP capacity of pump Centrifugal Monoblock Pump set (Single Stage) - Providing, erecting and giving test of centrifugal Monoblock pump set conforming to IS 9079 operating at 2900 RPM with CI impeller, priming funnel, cock, suitable flanges at suction and delivery side. Pump shall have common shaft for pump and motor. Motor shall be suitable for working on 415 V ± 10%, 3 Ph, 50 Hz A.C. Supply. Motor shall be TEFC type. Pump set shall be suitable for working at various discharge and head requirements. Pump shall be erected on Provided C.C. foundation block with suitable foundation bolts grouted in C.C. foundation block													
	4	Nos	13,891	13,891	13,891	13,891	13,891	13,891	**55,564**	**55,564**	**55,564**	**55,564**	**55,564**	**55,564**
15	Supplying and erecting DOL starter to operate squirrel cage induction motor working on 380- 440 Volt, 3 phase, 50 Hz with no volt coil and over load element with necessary material and connected to supply, etc complete. Starter with original sheet steel encloser. upto 7.5 HP Capacity													
	2	Nos	1,618	1,618	1,618	1,618	1,618	1,618	**3,236**	**3,236**	**3,236**	**3,236**	**3,236**	**3,236**
16	3 core PVC insulated, PVC sheathed copper conductor flat submersible cable. Supplying and erecting, Flat flexible submersible cable with, Copper Conductor, PVC insulated, and PVC sheathed.													
	100	rmt	276	276	276	276	276	276	**27,600**	**27,600**	**27,600**	**27,600**	**27,600**	**27,600**
17.1	Providing and supplying in standard lengths ISI mark rigid unplasticised PVC pipes suitable for potable water with solvent cement joints including cost of couplers, as per IS specification no. 4985 / 1988 excluding GST levied by GOI and GOM in all respect, including transportation, freight charges, inspection charges, loading, unloading, conveyance to the departmental stores and stacking the same in closed shed duly protected from sun rays and rains including cost of jointing material i.e. solvent cement, etc. complete (selffit type to be jointed with cement solvent). - 90 mm OD													
	100	Rmt	99	99	99	110	99	99	**9,900**	**9,900**	**9,900**	**11,000**	**9,900**	**9,900**
17.2	Lowering, laying and jointing with P.V.C. pipes and specials of following class and diameter including cost of conveyance from stores to site of works including cost of all labour, material, except cement solvent, rubber ring, as per IS code, etc. complete (with cement solvent joint / ring fit joint). - 90 mm OD													
	100	Rmt	28	28	28	28	28	28	**2,800**	**2,800**	**2,800**	**2,800**	**2,800**	**2,800**
18	Water Supply and Sanitary Fitting 42.54 BDV Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of low density polythyler and built corrugation including of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow of all tanks capacity above 1000 to 20,000 litres As directed by engineer-incharge. Litre 11.00 1.00													
	3,000	Liters	11	11	11	11	11	11	**33,000**	**33,000**	**33,000**	**33,000**	**33,000**	**33,000**
19	Providing, erecting, commissioning & giving test & trial for a period of one monthincluding one year free maintenance after commissioning of Electro chlorinator capable of generating													

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
	chlorine form common salt by electrolysis using electrodes in form of sodium hypo chlorite solution containing 6-8 gms/lit of available chlorine in batch or continuous process and capable of providing 8 hrs storage of hypochlorite in case of power failure.													
	1	Nos	192394	192394	192394	192394	192394	192394	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**
Total cost for setting up 5 KLD FSTP									**11,13,325**	**11,13,325**	**11,70,904**	**11,28,940**	**11,61,091**	**11,25,701**
20	Royalty													
	59	cum	141.34	141.34	141.34	141.34	141.34	141.34	8,350	8,350	8,350	8,350	8,350	8,350

A. Measurement Sheet – 10 KLD

1. SDB

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**						
	At Sludge drying bed						
	Excavation for RCC wall	1	64.60	0.80	1.50	77.52	
	Leachate collection tank @ SDB	4	0.50	0.50	0.50	0.50	
					TOTAL	**78.02**	**cum**
2	**Backfilling**		78.02	-15.91		62.11	**cum**
	SDB bed	4	6.00	4.00	0.20	19.20	
					TOTAL	**81.31**	**cum**
3	**Providing soling using 80 mm**						
	For Foundation	1	64.60	0.50	0.15	4.85	
	Leachate collection tank @ SDB - Small	4	0.50	0.50	0.15	0.15	
					TOTAL	**5.00**	**cum**
4	**PCC M-10**						
	Below Foundation	1	64.60	0.50	0.10	3.23	
	Leachate collection tank @ SDB - Small	4	0.50	0.50	0.10	0.10	
					TOTAL	**3.33**	**cum**
5	**R.C.C. work in foundations M-25**						
	RCC footing under wall	1	64.60	0.30	0.20	3.88	
	RCC slab of SDB	4	6.00	4.00	0.20	19.20	
	RCC slab of leachate tank @ SDB - Small	4	0.50	0.50	0.20	0.20	
					TOTAL	**23.28**	**cum**
6	**R.C.C. M-25 Wall**						
	RCC wall of SDB - BGL	1	33.00	0.20	0.60	3.96	
	RCC Wall of SDB- BGL	1	30.30	0.20	0.60	3.64	
	RCC wall of SDB - AGL	1	33.00	0.20	1.30	8.58	
	RCC wall of SDB - AGL	1	30.30	0.20	1.30	7.88	
	Wall of leachate tank	1	8.40	0.20	1.20	2.02	
					TOTAL	**26.07**	**cum**
7	**RCC M - 25 BEAM**						
	B-1 Beam	1	33.00	0.30	**0.45**	4.46	
	B-2 Beam	1	30.30	0.30	**0.45**	4.09	
						8.55	
8	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
	For Foundation @100kg/Cum	1	23.28	100.00		2327.60	
	For Wall @100kg/Cum	1	26.07	100.00		2607.00	
	For Beam @ 100 kg/cum	1	8.55	100.00		854.55	
						5789.15	kg
					TOTAL	**5.789**	**M.T.**
9	**Providing and filling sand (Coarse Sand and Gravel)**						
	At Sludge drying bed						
	Large gravel (dia.=5 cm)	4	6.00	4.00	0.20	19.20	
	Medium gravel (dia.=2 cm)	4	6.00	4.00	0.10	9.60	
	Sand	4	6.00	4.00	0.10	9.60	
					TOTAL	**38.40**	**cum**
10	**Internal plastering - 12 mm thick**						
	At SDB						
	SDB Walls	4	20.00		1.30	104.00	
	Wall at Leachate Collection Tank	4	2.00		1.20	9.60	
					TOTAL	**113.60**	**Sq.m**
11	**Royalty**						
	Item No. 3 Providing soling using 80 mm					5.00	
	Item No. 4 PCC M-10 (For Sand Only)		0.45	3.33		1.50	
	Item No. 5 R.C.C. work in foundations M-20		0.425	23.28		9.89	
	Item No. 6 R.C.C. M-20 wall		0.425	26.07		11.08	
	Item No.8 Poviding & Filling sand (Coarse Sand & gravel)					38.40	
					TOTAL	**65.87**	**cum**

2. ABR

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**	1	9.15	3.00	1.45	**39.80**	**cum**
2	**Backfilling**	-1	7.95	2.10	1.45	-24.21	
					TOTAL	**15.59**	**cum**
3	**Providing soling using 80 mm**	1	8.95	2.80	0.15	**3.76**	**cum**
4	**PCC M-10**	1	8.95	2.80	0.10	**2.51**	**cum**
5	**R.C.C. work in foundations M-25**	1	8.55	2.40	0.20	**4.10**	**cum**

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
6	**R.C.C. M-25 Wall**						
a	R.C.C. M-20 for Walls	1	25.35	0.15	1.20	4.56	
b	R.C.C. M-20 Slab for top slab	1	7.50	2.10	0.10	1.58	
					TOTAL	**6.14**	**cum**
7	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	4.10	100.00		410.40	
	For Wall @100kg/Cum	1	6.14	100.00		613.80	
						1024.20	kg
					TOTAL	**1.024**	**M.T.**
8	**Providing and filling sand (Coarse Sand and Gravel)**	1	5.40	1.80	0.15	1.46	
		1	5.40	1.80	0.15	1.46	
		1	5.40	1.80	0.10	0.97	
					TOTAL	**3.89**	Cum
9	**Plaster 12 mm (ABR Internal Walls)**	4	7.20		1.20	**34.56**	sqmt
10	**Cement concrete cover**	4				**4.00**	**Nos.**
11	**Royalty**						
	Item No. 4 Providing soling using 80 mm					3.76	
	Item No. 5 PCC M-10 (For Sand Only)		0.45	2.51		1.13	
	Item No. 6 R.C.C. work in foundations M-25		0.425	4.10		1.74	
	Item No. 7 R.C.C. M-25 wall & Top Slab		0.425	6.14		2.61	
	Item No. 8 Sand (Coarse Sand & Gravel Media)					1.46	
					TOTAL	**10.70**	**cum**

3. PGF

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**						
	At planted gravel filter	1	8.10	5.40	1.35	**59.05**	
2	**Backfilling @ 15% of Excavation**	-1	7.50	4.80	1.35	-48.60	**Cum**
					TOTAL	**10.45**	

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
3	**Providing soling using 80 mm**						
	PGF	1	7.90	5.20	0.15	6.16	
	For treated water tank	1	2.50	2.50	0.15	0.94	
					TOTAL	**7.10**	**Cum**
4	**PCC M-10**						
	PGF	1	7.90	5.20	0.10	4.11	
	For treated water tank	1	2.50	2.50	0.15	0.94	
					TOTAL	**5.05**	**cum**
5	**R.C.C. work in foundations M-25**						
	PGF	1	7.50	4.80	0.20	7.20	
					TOTAL	**7.20**	**Cum**
6	**R.C.C. M-25 Wall**						
	PGF	1	34.05	0.15	1.20	6.13	
					TOTAL	**6.13**	**cum**
6.1	**Brick Wall**						
	PGF Inlet & Outlet chamber Walls	2	6.60	0.23	0.70	2.13	
					TOTAL	**2.13**	**cum**
7	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	7.20	100.00		720.00	
	For Wall @100kg/Cum	1	6.13	100.00		612.90	
						1332.90	kg
					TOTAL	**1.33**	**M.T.**
8	**Providing and filling sand (Coarse Sand and Gravel)**						
	At PGF						
	Large gravel (dia.=5 cm)	2	6.10	3.30	0.15	6.04	Cum
	Medium gravel (dia.=2 cm)	2	6.10	3.30	0.15	6.04	Cum
	Sand	2	6.10	3.30	0.15	6.04	Cum
					TOTAL	**18.12**	**Cum**
9	**Plastering 12 mm (PGF)**						
	PGF Walls	2	19.80		1.00	39.60	
	PGF - Inlet & Outlet Chamber wall	2	13.20		0.70	18.48	
					TOTAL	**58.08**	**Sq.m**
10	**Plantation**	2.0	5.600	3.30	10.00	**370**	**Nos**

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
11	**Treated water tank**	1			**TOTAL**	**3000**	liters
12	**Royalty**						
	Item No. 4 Providing soling using 80 mm					7.10	
	Item No. 5 PCC M-10 (For Sand Only)		0.45	5.05		2.27	
	Item No. 6 R.C.C. work in foundations M-25		0.425	7.20		3.06	
	Item No. 7 R.C.C. M-25 wall & Top Slab		0.425	6.13		2.60	
	Item No. 8 Sand (Coarse Sand & Gravel Media)					18.12	
					TOTAL	**33.15**	**cum**

4. Consolidated MS

Item No.	Description	Qty	Unit
1	**Excavation for foundation**	**176.87**	**Cum**
2	**Backfilling**	**107.35**	**Cum**
3	**Providing soling using 80 mm**	**15.85**	**Cum**
4	**PCC M-10**	**10.88**	**cum**
5	**R.C.C. work in foundations M-25**	**34.58**	**Cum**
6	**R.C.C. M-25 Wall**	**38.93**	**cum**
7	**R.C.C. M-25 Beam**	**8.55**	**cum**
8	**Brick Wall**	**2.13**	**cum**
9	**Providing and fixing in position TMT / HYSD steel bars reinforcement**	**8.206**	**M.T.**
10	**Providing and filling sand (Coarse Sand and Gravel)**		
10.1	Large gravel (dia.=5 cm)	26.70	**Cum**
10.2	Medium gravel (dia.=2 cm)	17.10	**Cum**
10.3	Sand	16.61	**Cum**
		60.41	**Cum**
11	**Internal Plastering - 12 mm thick**	**204.80**	**Sq.m**
12	**Cement concrete cover**	**4.00**	**Nos.**
13	**Plantation**	**370.00**	**Nos**
14	**2.0 HP capacity of pump Centrifugal Monoblock Pump set (Single Stage)**	**4**	Nos
15	**DOL starter upto 7.5 HP Capacity**	**2**	Nos
16	**3 Core 10 mm PVC insulated, PVC Seathed, Copper Conductor wires**	**100**	rmt
17	**uPVC pipe - 63 mm dia**	**100**	rmt
18	**Treated water tank**	**3000**	liters
19	**Royalty**	**109.97**	**cum**
20	**Chlorination 25 gm/hr system**	**1.00**	**Nos**

B. Abstract Sheet – 10 KLD

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
1.1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5m.) By Mechanical Means													
	176.87	Cum	140	140	146	146	145	140	**24,762**	**24,762**	**25,823**	**25,823**	**25,646**	**24,762**
1.2	Excavation for foundation / pipe trenches in hard murum including removing the excavated material upto a distace of 50 M and lifts as below, stacking and spreading as directed by Engineer-incharge, normal dewatering, preparing the bed for foundation and excluding backfilling, etc. complete. Lift 0 to 1.5 M													
	-	Cum	157	157	170	165	165	157	-	-	-	-	-	-
1.3	Excavation for foundation / pipe trenches in hard murum and boulders, W.B.M. road including removing the excavated material upto a distance of 50 M beyond the area and lifts as below, stacking and spreading as directed by Engineer-incharge, normal dewatreing, preparing the bed for foundation and excluding backfilling, etc. complete. Lift 0 to 1.5 M													
	-	Cum	175	175	192	185	185	176	-	-	-	-	-	-
2.1	Filling in plinth and floors / trenches with contractor's murum for bedding in 15cm to 20cm layers including watering and compaction royalty charges etc.complete.													
	107.35	Cum	701	701	778	685	760	746	**75,254**	**75,254**	**83,520**	**73,537**	**81,588**	**80,085**
2.2	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc. complete.													
	-	Cum	72	72	73	70	73	73	-	-	-	-	-	-
3	Providing dry trap / granite / quartzite / gneiss, rubble stone soling in 15cm to 20 cm thick layers (including hand packing and compacting), etc. complete.													
	15.85	cum	993	993	1,143	1,009	1,029	1,009	**15,743**	**15,743**	**18,121**	**15,996**	**16,313**	**15,996**
4	Providing and laying in situ following grades of Plain Cement concrete of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including normal dewatering, form work, compaction and curing, etc, complete. Use of L & T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.)													
	10.88	Cum	4,262	4,262	4,691	4,301	4,652	4,323	**46,377**	**46,377**	**51,045**	**46,801**	**50,621**	**47,041**
5	Providing and laying in situ Cement concrete of trap/granite/quartzite/ gneiss metal for RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stanchions including normal dewatering, 'plywood form work, bully/steel propups, compaction, finishing and curing, etc, complete. (By weigh batching and mix esign for M-250 and M-300 only. Use of L & T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (excluding M.S. or Tor reinforcement)													
	34.58	Cum	6,024	6,024	6,445	6,001	6,367	6,047	**2,08,310**	**2,08,310**	**2,22,868**	**2,07,515**	**2,20,171**	**2,09,105**
6	Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by ngineer-in-charge For RCC M-250 grade Slabs / Landings / Vertical Walls / Waist Slabs / Steps for Staircase including normal dewatering, centering, 'plywood formwork, ully/steel													

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
	prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted) (excluding M.S, or Tor einforcement)													
	38.93	Cum	7,692	7,692	8,119	7,703	8,083	7,715	**2,99,483**	**2,99,483**	**3,16,108**	**2,99,911**	**3,14,707**	**3,00,379**
7	Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by ngineer-in-charge For RCC M-250 grade Beam/Braces/Lintels ncluding normal dewatering, centering, 'plywood formwork, ully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted) (excluding M.S, or Tor einforcement)													
	8.55	cum	7,128	7,128	7,552	7,123	7,491	7,173	**60,912**	**60,912**	**64,536**	**60,870**	**64,014**	**61,297**
8	Providing Second Class Burnt Brick masonry with conventional / IS. type bricks in cement mortar 1:6 including scaffolding, racking out joints pointing in C.M 1:3 and watering etc. in pillars of curved shapes, as shown on the drawing or as directed etc. complete. 27.01 BDG 1													
	2.13	cum	5,820	5,820	5,820	5,820	5,820	5,820	**12,369**	**12,369**	**12,369**	**12,369**	**12,369**	**12,369**
9	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.													
	8.21	M.T.	57,884	57,884	63,211	60,299	63,216	59,542	**4,74,995**	**4,74,995**	**5,18,709**	**4,94,813**	**5,18,750**	**4,88,601**
10	Providing, lowering, laying and placing in position, shrouding material for porous pipe gallery / slotted pipe gallery/ trench gallery with all leads and lifts involved including transportation of materials to site of works, screening and washing of materials and placing in position with given section, etc. complete as directed by Engineer-incharge.													
10.1	40 mm Pabbles													
	26.70	Cum	1,493	1,493	1,366	1,583	1,215	1,499	**39,859**	**39,859**	**36,468**	**42,261**	**32,437**	**40,019**
10.2	12 to 20 mm Pabbles													
	17.1	Cum	1,807	1,807	1,653	1,826	1,467	1,801	**30,894**	**30,894**	**28,261**	**31,219**	**25,081**	**30,792**
10.3	Fine Sand													
	16.6	Cum	1,000	1,000	1,700	1,242	1,575	1,000	**16,611**	**16,611**	**28,239**	**20,631**	**26,162**	**16,611**
11	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete. PWD, e-DSR(Bd.L.2 Page No. 368													
		sq.m												

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
	205		243	243	243	243	243	243	**49,766**	**49,766**	**49,766**	**49,766**	**49,766**	**49,766**
12	Providing and laying cement concrete manhole cover (300 mm X 300 mm)													
	4	nos	1,000	1,000	1,000	1,000	1,000	1,000	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**
13	Preparation of good soil and manure and throghly mixed, leveleing, watering and planting well developed canna bed of 1.5' height and maintaining till well established etc complete.													
	370	Nos	62.4	62.4	62.4	62.4	62.4	62.4	**23,088**	**23,088**	**23,088**	**23,088**	**23,088**	**23,088**
14	2.0 HP capacity of pump Centrifugal Monoblock Pump set (Single Stage) - Providing, erecting and giving test of centrifugal Monoblock pump set conforming to IS 9079 operating at 2900 RPM with CI impeller, priming funnel, cock, suitable flanges at suction and delivery side. Pump shall have common shaft for pump and motor. Motor shall be suitable for working on 415 V ± 10%, 3 Ph, 50 Hz A.C. Supply. Motor shall be TEFC type. Pump set shall be suitable for working at various discharge and head requirements. Pump shall be erected on Provided C.C. foundation block with suitable foundation bolts grouted in C.C. foundation block													
	4	Nos	13,891	13,891	13,891	13,891	13,891	13,891	**55,564**	**55,564**	**55,564**	**55,564**	**55,564**	**55,564**
15	Supplying and erecting DOL starter to operate squirrel cage induction motor working on 380- 440 Volt, 3 phase, 50 Hz with no volt coil and over load element with necessary material and connected to supply, etc complete. Starter with original sheet steel encloser. upto 7.5 HP Capacity													
	2	Nos	1,618	1,618	1,618	1,618	1,618	1,618	**3,236**	**3,236**	**3,236**	**3,236**	**3,236**	**3,236**
16	3 core PVC insulated, PVC sheathed copper conductor flat submersible cable. Supplying and erecting, Flat flexible submersible cable with, Copper Conductor, PVC insulated, and PVC sheathed.													
	100	rmt	276	276	276	276	276	276	**27,600**	**27,600**	**27,600**	**27,600**	**27,600**	**27,600**
17.1	Providing and supplying in standard lengths ISI mark rigid unplasticised PVC pipes suitable for potable water with solvent cement joints including cost of couplers, as per IS specification no. 4985 / 1988 excluding GST levied by GOI and GOM in all respect, including transportation, freight charges, inspection charges, loading, unloading, conveyance to the departmental stores and stacking the same in closed shed duly protected from sun rays and rains including cost of jointing material i.e. solvent cement, etc. complete (selffit type to be jointed with cement solvent). - 90 mm OD													
	100	Rmt	99	99	99	110	99	99	**9,900**	**9,900**	**9,900**	**11,000**	**9,900**	**9,900**
17.2	Lowering, laying and jointing with P.V.C. pipes and specials of following class and diameter including cost of conveyance from stores to site of works including cost of all labour, material, except cement solvent, rubber ring, as per IS code, etc. complete (with cement solvent joint / ring fit joint). - 90 mm OD													
	100	Rmt	28	28	28	28	28	28	**2,800**	**2,800**	**2,800**	**2,800**	**2,800**	**2,800**
18	Water Supply and Sanitary Fitting 42.54 BDV Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of low density polythyler and built corrugation including of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow of all tanks capacity above 1000 to 20,000 litres As directed by engineer-incharge. Litre 11.00 1.00													
	3,000	Liters	11	11	11	11	11	11	**33,000**	**33,000**	**33,000**	**33,000**	**33,000**	**33,000**
19	Providing, erecting, commissioning & giving test & trial for a period of one monthincluding one year free maintenance after commissioning of Electro chlorinator capable of													

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
	generating chlorine form common salt by electrolysis using electrodes in form of sodium hypo chlorite solution containing 6-8 gms/lit of available chlorine in batch or continuous process and capable of providing 8 hrs storage of hypochlorite in case of power failure.													
	1	Nos	192394	192394	192394	192394	192394	192394	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**
Total cost for setting up 10 KLD FSTP									**17,06,918**	**17,06,918**	**18,07,415**	**17,34,194**	**17,89,207**	**17,28,404**
20	Royalty													
	110	cum	141.34	141.34	141.34	141.34	141.34	141.34	15,543	15,543	15,543	15,543	15,543	15,543

A. Measurement Sheet - 15 KLD

1. SDB

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**						
	At Sludge drying bed						
	Excavation for RCC wall	1	80.10	0.80	1.50	96.12	
	Leachate collection tank @ SDB	4	0.50	0.50	0.50	0.50	
					TOTAL	**96.62**	**cum**
2	**Backfilling**		96.62	-19.74		76.88	**cum**
	SDB bed	4	7.50	5.00	0.20	30.00	
					TOTAL	**106.88**	**cum**
3	**Providing soling using 80 mm**						
	For Foundation	1	80.10	0.50	0.15	6.01	
	Leachate collection tank @ SDB - Small	4	0.50	0.50	0.15	0.15	
					TOTAL	**6.16**	**cum**
4	**PCC M-10**						
	Below Foundation	1	80.10	0.50	0.10	4.01	
	Leachate collection tank @ SDB - Small	4	0.50	0.50	0.10	0.10	
					TOTAL	**4.11**	**cum**
5	**R.C.C. work in foundations M-25**						
	RCC footing under wall	1	80.10	0.30	0.20	4.81	
	RCC slab of SDB	4	7.50	5.00	0.20	30.00	
	RCC slab of leachate tank @ SDB - Small	4	0.50	0.50	0.20	0.20	
					TOTAL	**35.01**	**cum**
6	**R.C.C. M-25 Wall**						
	RCC wall of SDB - BGL	1	41.00	0.20	0.60	4.92	
	RCC Wall of SDB- BGL	1	37.80	0.20	0.60	4.54	
	RCC wall of SDB - AGL	1	41.00	0.20	1.30	10.66	
	RCC wall of SDB - AGL	1	37.80	0.20	1.30	9.83	
	Wall of leachate tank	1	8.40	0.20	1.20	2.02	
					TOTAL	**31.96**	**cum**
7	**RCC M - 25 BEAM**						
	B-1 Beam	1	41.00	0.30	**0.45**	5.54	
	B-2 Beam	1	37.80	0.30	**0.45**	5.10	
						10.64	
8	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
	For Foundation @100kg/Cum	1	35.01	100.00		3500.60	
	For Wall @100kg/Cum	1	31.96	100.00		3196.00	
	For Beam @ 100 kg/cum	1	10.64	100.00		1063.80	
						7760.40	kg
					TOTAL	**7.760**	**M.T.**
9	**Providing and filling sand (Coarse Sand and Gravel)**						
	At Sludge drying bed						
	Large gravel (dia.=5 cm)	4	7.50	5.00	0.20	30.00	
	Medium gravel (dia.=2 cm)	4	7.50	5.00	0.10	15.00	
	Sand	4	7.50	5.00	0.10	15.00	
					TOTAL	**60.00**	**cum**
10	**Internal plastering - 12 mm thick**						
	At SDB						
	SDB Walls	4	25.00		1.30	130.00	
	Wall at Leachate Collection Tank	4	2.00		1.20	9.60	
					TOTAL	**139.60**	**Sq.m**
11	**Royalty**						
	Item No. 3 Providing soling using 80 mm					6.16	
	Item No. 4 PCC M-10 (For Sand Only)		0.45	4.11		1.85	
	Item No. 5 R.C.C. work in foundations M-20		0.425	35.01		14.88	
	Item No. 6 R.C.C. M-20 wall		0.425	31.96		13.58	
	Item No.8 Poviding & Filling sand (Coarse Sand & gravel)					60.00	
					TOTAL	**96.47**	**cum**

2. ABR

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**	1	10.75	3.40	1.45	**53.00**	**cum**
2	**Backfilling**	-1	9.55	2.50	1.45	-34.62	
					TOTAL	**18.38**	**cum**
3	**Providing soling using 80 mm**	1	10.55	3.20	0.15	**5.06**	**cum**
4	**PCC M-10**	1	10.55	3.20	0.10	**3.38**	**cum**

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
5	**R.C.C. work in foundations M-25**	1	10.15	2.80	0.20	**5.68**	**cum**
6	**R.C.C. M-25 Wall**						
a	R.C.C. M-20 for Walls	1	30.55	0.15	1.20	5.50	
b	R.C.C. M-20 Slab for top slab	1	9.10	2.50	0.10	2.28	
					TOTAL	**7.77**	**cum**
7	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	5.68	100.00		568.40	
	For Wall @100kg/Cum	1	7.77	100.00		777.40	
						1345.80	kg
					TOTAL	**1.346**	**M.T.**
8	**Providing and filling sand (Coarse Sand and Gravel)**	1	6.60	2.20	0.15	2.18	
		1	6.60	2.20	0.15	2.18	
		1	5.40	1.80	0.10	0.97	
					TOTAL	**5.33**	Cum
9	**Plaster 12 mm (ABR Internal Walls)**	4	8.80		1.20	**42.24**	sqmt
10	**Cement concrete cover**	4				**4.00**	**Nos.**
11	**Royalty**						
	Item No. 4 Providing soling using 80 mm					5.06	
	Item No. 5 PCC M-10 (For Sand Only)		0.45	3.38		1.52	
	Item No. 6 R.C.C. work in foundations M-25		0.425	5.68		2.42	
	Item No. 7 R.C.C. M-25 wall & Top Slab		0.425	7.77		3.30	
	Item No. 8 Sand (Coarse Sand & Gravel Media)					2.18	
					TOTAL	**14.48**	**cum**

3. PGF

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**						
	At planted gravel filter	1	9.50	6.10	1.35	**78.23**	
2	**Backfilling @ 15% of Excavation**	-1	8.90	5.50	1.35	-66.08	**Cum**

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
					TOTAL	**12.15**	
3	**Providing soling using 80 mm**						
	PGF	1	9.30	5.90	0.15	8.23	
	For treated water tank	1	2.50	2.50	0.15	0.94	
					TOTAL	**9.17**	**Cum**
4	**PCC M-10**						
	PGF	1	9.30	5.90	0.10	5.49	
	For treated water tank	1	2.50	2.50	0.15	0.94	
					TOTAL	**6.42**	**cum**
5	**R.C.C. work in foundations M-25**						
	PGF	1	8.90	5.50	0.20	9.79	
					TOTAL	**9.79**	**Cum**
6	**R.C.C. M-25 Wall**						
	PGF	1	41.05	0.15	1.20	7.39	
					TOTAL	**7.39**	**cum**
6.1	**Brick Wall**						
	PGF Inlet & Outlet chamber Walls	2	8.00	0.23	0.70	2.58	
					TOTAL	**2.58**	**cum**
7	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	9.79	100.00		979.00	
	For Wall @100kg/Cum	1	7.39	100.00		738.90	
						1717.90	kg
					TOTAL	**1.72**	**M.T.**
8	**Providing and filling sand (Coarse Sand and Gravel)**						
	At PGF						
	Large gravel (dia.=5 cm)	2	7.50	4.00	0.15	9.00	Cum
	Medium gravel (dia.=2 cm)	2	7.50	4.00	0.15	9.00	Cum
	Sand	2	7.50	4.00	0.15	9.00	Cum
					TOTAL	**27.00**	**Cum**
9	**Plastering 12 mm (PGF)**						
	PGF Walls	2	24.00		1.00	48.00	
	PGF - Inlet & Outlet Chamber wall	2	16.00		0.70	22.40	
					TOTAL	**70.40**	**Sq.m**
10	**Plantation**	2.0	7.000	4.00	10.00	**560**	**Nos**

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
11	**Treated water tank**	1			**TOTAL**	**3000**	liters
12	**Royalty**						
	Item No. 4 Providing soling using 80 mm					9.17	
	Item No. 5 PCC M-10 (For Sand Only)		0.45	6.42		2.89	
	Item No. 6 R.C.C. work in foundations M-25		0.425	9.79		4.16	
	Item No. 7 R.C.C. M-25 wall & Top Slab		0.425	7.39		3.14	
	Item No. 8 Sand (Coarse Sand & Gravel Media)					27.00	
					TOTAL	**46.36**	**cum**

4. Consolidated MS

Item No.	Description	Qty	Unit
1	**Excavation for foundation**	**227.85**	**Cum**
2	**Backfilling**	**137.41**	**Cum**
3	**Providing soling using 80 mm**	**20.39**	**Cum**
4	**PCC M-10**	**13.91**	**cum**
5	**R.C.C. work in foundations M-25**	**50.48**	**Cum**
6	**R.C.C. M-25 Wall**	**48.03**	**cum**
7	**R.C.C. M-25 Beam**	**10.64**	**cum**
8	**Brick Wall**	**2.58**	**cum**
9	**Providing and fixing in position TMT / HYSD steel bars reinforcement**	**10.915**	**M.T.**
10	**Providing and filling sand (Coarse Sand and Gravel)**		
10.1	Large gravel (dia.=5 cm)	41.18	**Cum**
10.2	Medium gravel (dia.=2 cm)	26.18	**Cum**
10.3	Sand	24.97	**Cum**
		92.33	**Cum**
11	**Internal Plastering - 12 mm thick**	**250.48**	**Sq.m**
12	**Cement concrete cover**	**4.00**	**Nos.**
13	**Plantation**	**560.00**	**Nos**
14	**2.0 HP capacity of pump Centrifugal Monoblock Pump set (Single Stage)**	**4**	Nos
15	**DOL starter upto 7.5 HP Capacity**	**2**	Nos
16	**3 Core 10 mm PVC insulated, PVC Seathed, Copper Conductor wires**	**100**	rmt
17	**uPVC pipe - 63 mm dia**	**100**	rmt
18	**Treated water tank**	**3000**	liters
19	**Royalty**	**157.69**	**cum**
20	**Chlorination 25 gm/hr system**	**1.00**	**Nos**

B. Abstract Sheet - 15 KLD

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
1.1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5m.) By Mechanical Means													
	227.85	Cum	140	140	146	146	145	140	**31,899**	**31,899**	**33,266**	**33,266**	**33,038**	**31,899**
1.2	Excavation for foundation / pipe trenches in hard murum including removing the excavated material upto a distace of 50 M and lifts as below, stacking and spreading as directed by Engineer-incharge, normal dewatering, preparing the bed for foundation and excluding backfilling, etc. complete. Lift 0 to 1.5 M													
	-	Cum	157	157	170	165	165	157	-	-	-	-	-	-
1.3	Excavation for foundation / pipe trenches in hard murum and boulders, W.B.M. road including removing the excavated material upto a distance of 50 M beyond the area and lifts as below, stacking and spreading as directed by Engineer-incharge, normal dewatreing, preparing the bed for foundation and excluding backfilling, etc. complete. Lift 0 to 1.5 M													
	-	Cum	175	175	192	185	185	176	-	-	-	-	-	-
2.1	Filling in plinth and floors / trenches with contractor's murum for bedding in 15cm to 20cm layers including watering and compaction royalty charges etc.complete.													
	137.41	Cum	701	701	778	685	760	746	**96,325**	**96,325**	**1,06,905**	**94,126**	**1,04,432**	**1,02,508**
2.2	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc. complete.													
	-	Cum	72	72	73	70	73	73	-	-	-	-	-	-
3	Providing dry trap / granite / quartzite / gneiss, rubble stone soling in 15cm to 20 cm thick layers (including hand packing and compacting), etc. complete.													
	20.39	cum	993	993	1,143	1,009	1,029	1,009	**20,247**	**20,247**	**23,305**	**20,573**	**20,981**	**20,573**

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
4	Providing and laying in situ following grades of Plain Cement concrete of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including normal dewatering, form work, compaction and curing, etc, complete. Use of L & T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.)													
	13.91	Cum	4,262	4,262	4,691	4,301	4,652	4,323	**59,265**	**59,265**	**65,231**	**59,808**	**64,688**	**60,113**
5	Providing and laying in situ Cement concrete of trap/granite/quartzite/ gneiss metal for RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stanchions including normal dewatering, 'plywood form work, bully/steel propups, compaction, finishing and curing, etc, complete. (By weigh batching and mix esign for M-250 and M-300 only. Use of L & T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (excluding M.S. or Tor reinforcement)													
	50.48	Cum	6,024	6,024	6,445	6,001	6,367	6,047	**3,04,092**	**3,04,092**	**3,25,344**	**3,02,930**	**3,21,406**	**3,05,253**
6	Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by ngineer-in-charge For RCC M-250 grade Slabs / Landings / Vertical Walls / Waist Slabs / Steps for Staircase including normal dewatering, centering, 'plywood formwork, ully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted) (excluding M.S, or Tor einforcement)													
	48.03	Cum	7,692	7,692	8,119	7,703	8,083	7,715	**3,69,457**	**3,69,457**	**3,89,967**	**3,69,986**	**3,88,238**	**3,70,562**
7	Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by ngineer-in-charge For RCC M-250 grade Beam/Braces/Lintels ncluding normal dewatering, centering, 'plywood formwork, ully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted) (excluding M.S, or Tor einforcement)													
	10.64	cum	7,128	7,128	7,552	7,123	7,491	7,173	**75,828**	**75,828**	**80,338**	**75,774**	**79,689**	**76,306**
8	Providing Second Class Burnt Brick masonry with conventional / IS. type bricks in cement mortar 1:6 including scaffolding, racking out joints pointing in C.M 1:3 and watering etc. in pillars of curved shapes, as shown on the drawing or as directed etc. complete. 27.01 BDG 1													
	2.58	cum	5,820	5,820	5,820	5,820	5,820	5,820	**14,992**	**14,992**	**14,992**	**14,992**	**14,992**	**14,992**

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
9	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.													
	10.91	M.T.	57,884	57,884	63,211	60,299	63,216	59,542	**6,31,800**	**6,31,800**	**6,89,944**	**6,58,160**	**6,89,999**	**6,49,897**
10	Providing, lowering, laying and placing in position, shrouding material for porous pipe gallery / slotted pipe gallery/ trench gallery with all leads and lifts involved including transportation of materials to site of works, screening and washing of materials and placing in position with given section, etc. complete as directed by Engineer-incharge.													
10.1	40 mm Pabbles													
	41.18	Cum	1,493	1,493	1,366	1,583	1,215	1,499	**61,479**	**61,479**	**56,249**	**65,185**	**50,031**	**61,726**
10.2	12 to 20 mm Pabbles													
	26.2	Cum	1,807	1,807	1,653	1,826	1,467	1,801	**47,304**	**47,304**	**43,272**	**47,801**	**38,403**	**47,147**
10.3	Fine Sand													
	25.0	Cum	1,000	1,000	1,700	1,242	1,575	1,000	**24,972**	**24,972**	**42,452**	**31,015**	**39,331**	**24,972**
11	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete. PWD, e-DSR(Bd.L.2 Page No. 368													
	250	sq.m	243	243	243	243	243	243	**60,867**	**60,867**	**60,867**	**60,867**	**60,867**	**60,867**
12	Providing and laying cement concrete manhole cover (300 mm X 300 mm)													
	4	nos	1,000	1,000	1,000	1,000	1,000	1,000	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**
13	Preparation of good soil and manure and throghly mixed, leveleing, watering and planting well developed canna bed of 1.5' height and maintaining till well established etc complete.													
	560	Nos	62.4	62.4	62.4	62.4	62.4	62.4	**34,944**	**34,944**	**34,944**	**34,944**	**34,944**	**34,944**

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
14	2.0 HP capacity of pump Centrifugal Monoblock Pump set (Single Stage) - Providing, erecting and giving test of centrifugal Monoblock pump set conforming to IS 9079 operating at 2900 RPM with CI impeller, priming funnel, cock, suitable flanges at suction and delivery side. Pump shall have common shaft for pump and motor. Motor shall be suitable for working on 415 V ± 10%, 3 Ph, 50 Hz A.C. Supply. Motor shall be TEFC type. Pump set shall be suitable for working at various discharge and head requirements. Pump shall be erected on Provided C.C. foundation block with suitable foundation bolts grouted in C.C. foundation block													
	4	Nos	13,891	13,891	13,891	13,891	13,891	13,891	**55,564**	**55,564**	**55,564**	**55,564**	**55,564**	**55,564**
15	Supplying and erecting DOL starter to operate squirrel cage induction motor working on 380- 440 Volt, 3 phase, 50 Hz with no volt coil and over load element with necessary material and connected to supply, etc complete. Starter with original sheet steel encloser. upto 7.5 HP Capacity													
	2	Nos	1,618	1,618	1,618	1,618	1,618	1,618	**3,236**	**3,236**	**3,236**	**3,236**	**3,236**	**3,236**
16	3 core PVC insulated, PVC sheathed copper conductor flat submersible cable. Supplying and erecting, Flat flexible submersible cable with, Copper Conductor, PVC insulated, and PVC sheathed.													
	100	rmt	276	276	276	276	276	276	**27,600**	**27,600**	**27,600**	**27,600**	**27,600**	**27,600**
17.1	Providing and supplying in standard lengths ISI mark rigid unplasticised PVC pipes suitable for potable water with solvent cement joints including cost of couplers, as per IS specification no. 4985 / 1988 excluding GST levied by GOI and GOM in all respect, including transportation, freight charges, inspection charges, loading, unloading, conveyance to the departmental stores and stacking the same in closed shed duly protected from sun rays and rains including cost of jointing material i.e. solvent cement, etc. complete (selffit type to be jointed with cement solvent). - 90 mm OD													
	100	Rmt	99	99	99	110	99	99	**9,900**	**9,900**	**9,900**	**11,000**	**9,900**	**9,900**
17.2	Lowering, laying and jointing with P.V.C. pipes and specials of following class and diameter including cost of conveyance from stores to site of works including cost of all labour, material, except cement solvent, rubber ring, as per IS code, etc. complete (with cement solvent joint / ring fit joint). - 90 mm OD													
	100	Rmt	28	28	28	28	28	28	**2,800**	**2,800**	**2,800**	**2,800**	**2,800**	**2,800**
18	Water Supply and Sanitary Fitting 42.54 BDV Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of low density polythyler and built corrugation including of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow of all tanks capacity above 1000 to 20,000 litres As directed by engineer-incharge. Litre 11.00 1.00													
	3,000	Liters	11	11	11	11	11	11	**33,000**	**33,000**	**33,000**	**33,000**	**33,000**	**33,000**
19	Providing, erecting, commissioning & giving test & trial for a period of one monthincluding one year free maintenance after commissioning of Electro chlorinator capable of													

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
	generating chlorine form common salt by electrolysis using electrodes in form of sodium hypo chlorite solution containing 6-8 gms/lit of available chlorine in batch or continuous process and capable of providing 8 hrs storage of hypochlorite in case of power failure.													
	1	Nos	192394	192394	192394	192394	192394	192394	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**
Total cost for setting up15 KLD FSTP									**21,61,964**	**21,61,964**	**22,95,571**	**21,99,021**	**22,69,533**	**21,90,253**
20	Royalty													
	158	cum	141.34	141.34	141.34	141.34	141.34	141.34	22,288	22,288	22,288	22,288	22,288	22,288

A. Measurement Sheet - 20 KLD

1. SDB

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**						
	At Sludge drying bed						
	Excavation for RCC wall	1	91.20	0.80	1.50	109.44	
	Leachate collection tank @ SDB	4	0.50	0.50	0.50	0.50	
					TOTAL	**109.94**	**cum**
2	**Backfilling**		109.94	-22.46		87.48	**cum**
	SDB bed	4	8.60	5.70	0.20	39.22	
					TOTAL	**126.69**	**cum**
3	**Providing soling using 80 mm**						
	For Foundation	1	91.20	0.50	0.15	6.84	
	Leachate collection tank @ SDB - Small	4	0.50	0.50	0.15	0.15	
					TOTAL	**6.99**	**cum**
4	**PCC M-10**						
	Below Foundation	1	91.20	0.50	0.10	4.56	
	Leachate collection tank @ SDB - Small	4	0.50	0.50	0.10	0.10	
					TOTAL	**4.66**	**cum**
5	**R.C.C. work in foundations M-25**						
	RCC footing under wall	1	91.20	0.30	0.20	5.47	
	RCC slab of SDB	4	8.60	5.70	0.20	39.22	
	RCC slab of leachate tank @ SDB - Small	4	0.50	0.50	0.20	0.20	
					TOTAL	**44.89**	**cum**
6	**R.C.C. M-25 Wall**						
	RCC wall of SDB - BGL	1	46.60	0.20	0.60	5.59	
	RCC Wall of SDB- BGL	1	43.30	0.20	0.60	5.20	
	RCC wall of SDB - AGL	1	46.60	0.20	1.30	12.12	
	RCC wall of SDB - AGL	1	43.30	0.20	1.30	11.26	
	Wall of leachate tank	1	8.40	0.20	1.20	2.02	
					TOTAL	**36.18**	**cum**
7	**RCC M - 25 BEAM**						
	B-1 Beam	1	46.60	0.30	**0.45**	6.29	
	B-2 Beam	1	43.30	0.30	**0.45**	5.85	
						12.14	

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
8	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	44.89	100.00		4488.80	
	For Wall @100kg/Cum	1	36.18	100.00		3617.80	
	For Beam @ 100 kg/cum	1	12.14	100.00		1213.65	
						9320.25	kg
					TOTAL	**9.320**	**M.T.**
9	**Providing and filling sand (Coarse Sand and Gravel)**						
	At Sludge drying bed						
	Large gravel (dia.=5 cm)	4	8.60	5.70	0.20	39.22	
	Medium gravel (dia.=2 cm)	4	8.60	5.70	0.10	19.61	
	Sand	4	8.60	5.70	0.10	19.61	
					TOTAL	**78.43**	**cum**
10	**Internal plastering - 12 mm thick**						
	At SDB						
	SDB Walls	4	28.60		1.30	148.72	
	Wall at Leachate Collection Tank	4	2.00		1.20	9.60	
					TOTAL	**158.32**	**Sq.m**
11	**Royalty**						
	Item No. 3 Providing soling using 80 mm					6.99	
	Item No. 4 PCC M-10 (For Sand Only)		0.45	4.66		2.10	
	Item No. 5 R.C.C. work in foundations M-20		0.425	44.89		19.08	
	Item No. 6 R.C.C. M-20 wall		0.425	36.18		15.38	
	Item No.8 Poviding & Filling sand (Coarse Sand & gravel)					78.43	
					TOTAL	**121.97**	**cum**

2. ABR

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
1	**Excavation for foundation**	1	11.95	3.70	1.45	**64.11**	**cum**
2	**Backfilling**	-1	10.75	2.80	1.45	-43.65	
					TOTAL	**20.47**	**cum**
3	**Providing soling using 80 mm**	1	11.75	3.50	0.15	**6.17**	**cum**
4	**PCC M-10**	1	11.75	3.50	0.10	**4.11**	**cum**

5	**R.C.C. work in foundations M-25**	1	11.35	3.10	0.20	**7.04**	**cum**
6	**R.C.C. M-25 Wall**						
a	R.C.C. M-20 for Walls	1	34.45	0.15	1.20	6.20	
b	R.C.C. M-20 Slab for top slab	1	10.30	2.80	0.10	2.88	
					TOTAL	**9.09**	**cum**
7	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	7.04	100.00		703.70	
	For Wall @100kg/Cum	1	9.09	100.00		908.50	
						1612.20	kg
					TOTAL	**1.612**	**M.T.**
8	**Providing and filling sand (Coarse Sand and Gravel)**	1	7.50	2.50	0.15	2.81	
		1	7.50	2.50	0.15	2.81	
		1	5.40	1.80	0.10	0.97	
					TOTAL	**6.60**	Cum
9	**Plaster 12 mm (ABR Internal Walls)**	4	10.00		1.20	**48.00**	sqmt
10	**Cement concrete cover**	4				**4.00**	**Nos.**
11	**Royalty**						
	Item No. 4 Providing soling using 80 mm					6.17	
	Item No. 5 PCC M-10 (For Sand Only)		0.45	4.11		1.85	
	Item No. 6 R.C.C. work in foundations M-25		0.425	7.04		2.99	
	Item No. 7 R.C.C. M-25 wall & Top Slab		0.425	9.09		3.86	
	Item No. 8 Sand (Coarse Sand & Gravel Media)					2.81	
					TOTAL	**17.68**	**cum**

3. PGF

Item No.	**Description**	**No.**	**Length**	**Breadth**	**Depth/ Height**	**Qty**	**Unit**
1	**Excavation for foundation**						
	At planted gravel filter	1	10.70	6.70	1.35	**96.78**	
2	**Backfilling @ 15% of Excavation**	-1	10.10	6.10	1.35	-83.17	**Cum**
					TOTAL	**13.61**	

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
3	**Providing soling using 80 mm**						
	PGF	1	10.50	6.50	0.15	10.24	
	For treated water tank	1	2.50	2.50	0.15	0.94	
					TOTAL	**11.18**	**Cum**
4	**PCC M-10**						
	PGF	1	10.50	6.50	0.10	6.83	
	For treated water tank	1	2.50	2.50	0.15	0.94	
					TOTAL	**7.76**	**cum**
5	**R.C.C. work in foundations M-25**						
	PGF	1	10.10	6.10	0.20	12.32	
					TOTAL	**12.32**	**Cum**
6	**R.C.C. M-25 Wall**						
	PGF	1	47.05	0.15	1.20	8.47	
					TOTAL	**8.47**	**cum**
6.1	**Brick Wall**						
	PGF Inlet & Outlet chamber Walls	2	9.20	0.23	0.70	2.96	
					TOTAL	**2.96**	**cum**
7	**Providing and fixing in position TMT / HYSD steel bars reinforcement**						
	For Foundation @100kg/Cum	1	12.32	100.00		1232.20	
	For Wall @100kg/Cum	1	8.47	100.00		846.90	
						2079.10	kg
					TOTAL	**2.08**	**M.T.**
8	**Providing and filling sand (Coarse Sand and Gravel)**						
	At PGF						
	Large gravel (dia.=5 cm)	2	8.70	4.60	0.15	12.01	Cum
	Medium gravel (dia.=2 cm)	2	8.70	4.60	0.15	12.01	Cum
	Sand	2	8.70	4.60	0.15	12.01	Cum
					TOTAL	**36.02**	**Cum**
9	**Plastering 12 mm (PGF)**						
	PGF Walls	2	27.60		1.00	55.20	
	PGF - Inlet & Outlet Chamber wall	2	18.40		0.70	25.76	
					TOTAL	**80.96**	**Sq.m**
10	**Plantation**	2.0	8.200	4.60	10.00	**760**	**Nos**

Item No.	Description	No.	Length	Breadth	Depth/ Height	Qty	Unit
11	**Treated water tank**	1			**TOTAL**	**3000**	liters
12	**Royalty**						
	Item No. 4 Providing soling using 80 mm					11.18	
	Item No. 5 PCC M-10 (For Sand Only)		0.45	7.76		3.49	
	Item No. 6 R.C.C. work in foundations M-25		0.425	12.32		5.24	
	Item No. 7 R.C.C. M-25 wall & Top Slab		0.425	8.47		3.60	
	Item No. 8 Sand (Coarse Sand & Gravel Media)					36.02	
					TOTAL	**59.52**	**cum**

4. Consolidated MS

Item No.	Description	Qty	Unit
1	**Excavation for foundation**	**270.83**	**Cum**
2	**Backfilling**	**160.77**	**Cum**
3	**Providing soling using 80 mm**	**24.33**	**Cum**
4	**PCC M-10**	**16.54**	**cum**
5	**R.C.C. work in foundations M-25**	**64.25**	**Cum**
6	**R.C.C. M-25 Wall**	**54.92**	**cum**
7	**R.C.C. M-25 Beam**	**12.14**	**cum**
8	**Brick Wall**	**2.96**	**cum**
9	**Providing and fixing in position TMT / HYSD steel bars reinforcement**	**13.130**	**M.T.**
10	**Providing and filling sand (Coarse Sand and Gravel)**		
10.1	Large gravel (dia.=5 cm)	54.03	**Cum**
10.2	Medium gravel (dia.=2 cm)	34.43	**Cum**
10.3	Sand	32.59	**Cum**
		121.05	**Cum**
11	**Internal Plastering - 12 mm thick**	**285.28**	**Sq.m**
12	**Cement concrete cover**	**4.00**	**Nos.**
13	**Plantation**	**760.00**	**Nos**
14	**2.0 HP capacity of pump Centrifugal Monoblock Pump set (Single Stage)**	**4**	Nos
15	**DOL starter upto 7.5 HP Capacity**	**2**	Nos
16	**3 Core 10 mm PVC insulated, PVC Seathed, Copper Conductor wires**	**100**	rmt
17	**uPVC pipe - 63 mm dia**	**100**	rmt
18	**Treated water tank**	**3000**	liters
19	**Royalty**	**199.68**	**cum**
20	**Chlorination 25 gm/hr system**	**1.00**	**Nos**

B. Abstract Sheet - 20 KLD

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
1.1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5m.) By Mechanical Means													
	270.83	Cum	140	140	146	146	145	140	**37,917**	**37,917**	**39,542**	**39,542**	**39,271**	**37,917**
1.2	Excavation for foundation / pipe trenches in hard murum including removing the excavated material upto a distace of 50 M and lifts as below, stacking and spreading as directed by Engineer-incharge, normal dewatering, preparing the bed for foundation and excluding backfilling, etc. complete. Lift 0 to 1.5 M													
	-	Cum	157	157	170	165	165	157	-	-	-	-	-	-
1.3	Excavation for foundation / pipe trenches in hard murum and boulders, W.B.M. road including removing the excavated material upto a distance of 50 M beyond the area and lifts as below, stacking and spreading as directed by Engineer-incharge, normal dewatreing, preparing the bed for foundation and excluding backfilling, etc. complete. Lift 0 to 1.5 M													
	-	Cum	175	175	192	185	185	176	-	-	-	-	-	-
2.1	Filling in plinth and floors / trenches with contractor's murum for bedding in 15cm to 20cm layers including watering and compaction royalty charges etc.complete.													
	160.77	Cum	701	701	778	685	760	746	**1,12,697**	**1,12,697**	**1,25,077**	**1,10,125**	**1,22,183**	**1,19,932**
2.2	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc. complete.													
	-	Cum	72	72	73	70	73	73	-	-	-	-	-	-
3	Providing dry trap / granite / quartzite / gneiss, rubble stone soling in 15cm to 20 cm thick layers (including hand packing and compacting), etc. complete.													
	24.33	cum	993	993	1,143	1,009	1,029	1,009	**24,163**	**24,163**	**27,813**	**24,553**	**25,039**	**24,553**
4	Providing and laying in situ following grades of Plain Cement concrete of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including normal dewatering, form work, compaction and curing, etc, complete. Use of L & T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.)													
	16.54	Cum	4,262	4,262	4,691	4,301	4,652	4,323	**70,472**	**70,472**	**77,566**	**71,117**	**76,921**	**71,481**
5	Providing and laying in situ Cement concrete of trap/granite/quartzite/ gneiss metal for RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stanchions including normal dewatering, 'plywood form work, bully/steel propups, compaction, finishing and curing, etc, complete. (By weigh batching and mix esign for M-250 and M-300 only. Use of L & T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (excluding M.S. or Tor reinforcement)													
	64.25	Cum	6,024	6,024	6,445	6,001	6,367	6,047	**3,87,024**	**3,87,024**	**4,14,072**	**3,85,546**	**4,09,061**	**3,88,502**
6	Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by ngineer-in-charge For RCC M-250 grade Slabs / Landings / Vertical Walls / Waist Slabs / Steps for Staircase including normal dewatering, centering, 'plywood formwork, ully/steel													

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
	prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted) (excluding M.S, or Tor einforcement)													
	54.92	Cum	7,692	7,692	8,119	7,703	8,083	7,715	**4,22,411**	**4,22,411**	**4,45,860**	**4,23,015**	**4,43,883**	**4,23,674**
7	Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by ngineer-in-charge For RCC M-250 grade Beam/Braces/Lintels ncluding normal dewatering, centering, 'plywood formwork, ully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C. C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted) (excluding M.S, or Tor einforcement)													
	12.14	cum	7,128	7,128	7,552	7,123	7,491	7,173	**86,509**	**86,509**	**91,655**	**86,448**	**90,915**	**87,055**
8	Providing Second Class Burnt Brick masonry with conventional / IS. type bricks in cement mortar 1:6 including scaffolding, racking out joints pointing in C.M 1:3 and watering etc. in pillars of curved shapes, as shown on the drawing or as directed etc. complete. 27.01 BDG 1													
	2.96	cum	5,820	5,820	5,820	5,820	5,820	5,820	**17,241**	**17,241**	**17,241**	**17,241**	**17,241**	**17,241**
9	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.													
	13.13	M.T.	57,884	57,884	63,211	60,299	63,216	59,542	**7,60,012**	**7,60,012**	**8,29,955**	**7,91,721**	**8,30,021**	**7,81,781**
10	Providing, lowering, laying and placing in position, shrouding material for porous pipe gallery / slotted pipe gallery/ trench gallery with all leads and lifts involved including transportation of materials to site of works, screening and washing of materials and placing in position with given section, etc. complete as directed by Engineer-incharge.													
10.1	40 mm Pabbles													
	54.03	Cum	1,493	1,493	1,366	1,583	1,215	1,499	**80,674**	**80,674**	**73,811**	**85,537**	**65,652**	**80,998**
10.2	12 to 20 mm Pabbles													
	34.4	Cum	1,807	1,807	1,653	1,826	1,467	1,801	**62,209**	**62,209**	**56,907**	**62,863**	**50,504**	**62,002**
10.3	Fine Sand													
	32.6	Cum	1,000	1,000	1,700	1,242	1,575	1,000	**32,586**	**32,586**	**55,396**	**40,472**	**51,323**	**32,586**
11	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete. PWD, e-DSR(Bd.L.2 Page No. 368													
		sq.m												

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangabad
	285		243	243	243	243	243	243	**69,323**	**69,323**	**69,323**	**69,323**	**69,323**	**69,323**
12	Providing and laying cement concrete manhole cover (300 mm X 300 mm)													
	4	nos	1,000	1,000	1,000	1,000	1,000	1,000	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**
13	Preparation of good soil and manure and throghly mixed, leveleing, watering and planting well developed canna bed of 1.5' height and maintaining till well established etc complete.													
	760	Nos	62.4	62.4	62.4	62.4	62.4	62.4	**47,424**	**47,424**	**47,424**	**47,424**	**47,424**	**47,424**
14	2.0 HP capacity of pump Centrifugal Monoblock Pump set (Single Stage) - Providing, erecting and giving test of centrifugal Monoblock pump set conforming to IS 9079 operating at 2900 RPM with CI impeller, priming funnel, cock, suitable flanges at suction and delivery side. Pump shall have common shaft for pump and motor. Motor shall be suitable for working on 415 V ± 10%, 3 Ph, 50 Hz A.C. Supply. Motor shall be TEFC type. Pump set shall be suitable for working at various discharge and head requirements. Pump shall be erected on Provided C.C. foundation block with suitable foundation bolts grouted in C.C. foundation block													
	4	Nos	13,891	13,891	13,891	13,891	13,891	13,891	**55,564**	**55,564**	**55,564**	**55,564**	**55,564**	**55,564**
15	Supplying and erecting DOL starter to operate squirrel cage induction motor working on 380- 440 Volt, 3 phase, 50 Hz with no volt coil and over load element with necessary material and connected to supply, etc complete. Starter with original sheet steel encloser. upto 7.5 HP Capacity													
	2	Nos	1,618	1,618	1,618	1,618	1,618	1,618	**3,236**	**3,236**	**3,236**	**3,236**	**3,236**	**3,236**
16	3 core PVC insulated, PVC sheathed copper conductor flat submersible cable. Supplying and erecting, Flat flexible submersible cable with, Copper Conductor, PVC insulated, and PVC sheathed.													
	100	rmt	276	276	276	276	276	276	**27,600**	**27,600**	**27,600**	**27,600**	**27,600**	**27,600**
17.1	Providing and supplying in standard lengths ISI mark rigid unplasticised PVC pipes suitable for potable water with solvent cement joints including cost of couplers, as per IS specification no. 4985 / 1988 excluding GST levied by GOI and GOM in all respect, including transportation, freight charges, inspection charges, loading, unloading, conveyance to the departmental stores and stacking the same in closed shed duly protected from sun rays and rains including cost of jointing material i.e. solvent cement, etc. complete (selffit type to be jointed with cement solvent). - 90 mm OD													
	100	Rmt	99	99	99	110	99	99	**9,900**	**9,900**	**9,900**	**11,000**	**9,900**	**9,900**
17.2	Lowering, laying and jointing with P.V.C. pipes and specials of following class and diameter including cost of conveyance from stores to site of works including cost of all labour, material, except cement solvent, rubber ring, as per IS code, etc. complete (with cement solvent joint / ring fit joint). - 90 mm OD													
	100	Rmt	28	28	28	28	28	28	**2,800**	**2,800**	**2,800**	**2,800**	**2,800**	**2,800**
18	Water Supply and Sanitary Fitting 42.54 BDV Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of low density polythyler and built corrugation including of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow of all tanks capacity above 1000 to 20,000 litres As directed by engineer-incharge. Litre 11.00 1.00													
	3,000	Liters	11	11	11	11	11	11	**33,000**	**33,000**	**33,000**	**33,000**	**33,000**	**33,000**
19	Providing, erecting, commissioning & giving test & trial for a period of one monthincluding one year free maintenance after commissioning of Electro chlorinator capable of													

Sr. no.	Qty	Unit	Rate						Cost					
			Amravati	Nagpur	Konkan	Nashik	Pune	Aurangab ad	Amravati	Nagpur	Konkan	Nashik	Pune	Aurangab ad
	generating chlorine form common salt by electrolysis using electrodes in form of sodium hypo chlorite solution containing 6-8 gms/lit of available chlorine in batch or continuous process and capable of providing 8 hrs storage of hypochlorite in case of power failure.													
	1	Nos	192394	192394	192394	192394	192394	192394	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**	**1,92,394**
Total cost for setting up _ KLD FSTP									**25,39,156**	**25,39,156**	**27,00,136**	**25,84,520**	**26,67,253**	**25,72,962**
20	Royalty													
	200	cum	141.34	141.34	141.34	141.34	141.34	141.34	28,223	28,223	28,223	28,223	28,223	28,223

शासन निर्णय, क्रमांक : क्र-स्वमअ-२०१९/प्र.क्र.१२४/नवि ३४, दिनांक ८ नोव्हेंबर, २०१९ सोबतचे सहपत्र.

विवरणपत्र-३

UNDERTAKING

This is to certify that the name of the Project: Sludge drying beds Feacal sludge treatment plant (FSTP) at (Name of ULB) at ___Location of FSTP____

1. Title of the project land is clear and under the possession of the (Name of ULB)
2. The proposed site is safe from flooding and atleast 100 mt away from any natural water bodies. The ground water level at proposed site is atleast 10 mt below from ground level.
3. The ULB will be responsible to ensure quality control during the implementation of this project. The structural safety aspects of the various units proposed in the project will be ensured by ULB during the implementation. ULB will undertake third party monitoring for the construction of FSTP if as necessary.
4. The ULB will ensure levels during the implementation to ensure gravity flow of effluent as per the proposed hydraulic design.
5. The ULB ensure that all the units constructed under this project will be water tight. ULB will undertake leakage tests before commissioning of FSTP.
6. That necessary actions will be taken by the Urban Local Body for ensuring access to septic tank emptying vehicles to the site. ULB will lay down the procedure to allow private septic tank emptier to dispose septage at the proposed site.
7. The soling work will not be carried out and backfilling works to be done using excavated soil in case proposed site strata would be good soil/ hard rock.
8. The ULB will be responsible to provide all basic facilities including water supply facilities, electricity connection at site and other infrastructure at the site to be maintained by the ULB.
9. The project will be implemented within 45 days from the date of technical and administrative sanction from UDD, Government of Maharashtra.
10. Operation and Maintenance of the FSTP shall be done by ULB. ULB undertakes to ensure O&M of FSTP by allocating adequate human resources, equipment and financial allocation.
11. ULB shall implement robust record keeping system on the operation of the FSTP. It would include daily operating records, the operators log book, manifest reports (as per manifest forms issued by mission office, UDD, GoM from time to time), the treatment unit operating data sheet, and other records related to vacuum emptier for FS deliveries to the plant.
12. ULB shall undertake quality test results from time to time for influent and effluent of water streams.
13. Any escalation in the project cost would be borne by ULB.

Signature of the Chief Officer of _________

Name & Designation:

Address:

Fax No:

Telephone No. Mobile No:

E-mail: